



Creative

GRADE

1

Games

Math

Crafts

Writing

Storybooks

Science

Kids Zone

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GRADE

1

Creative Kids Zone



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Introduction

Welcome to *Creative Kids Zone*!

Five different exciting zones await your child. Each zone features fun activities designed to stimulate your child's mind and entertain him or her for hours. The standards-based content in *Creative Kids Zone* expands on math, science, and reading content being taught in the 21st century, first grade classroom. Through interactive stories, crafts, games, math puzzles, and science experiments your child will make connections to learning in exciting ways. Each zone is unique so your child can:

Be creative in the Craft Zone!

- The Craft Zone features open-ended craft ideas for any occasion, play clay recipes, tie dyeing, puppets in all shapes and sizes, and stage ideas for dramatic play.

Get logical in the Math Zone!

- The Math Zone features fun, standards-based math activities where your child can help Max and Emma count money, tell time, or solve math problems to unlock secret messages.

Use imagination in the Story Zone!

- The Story Zone features three removable storybooks about Max and Emma—two fun and creative kids, and each story includes open-ended activities and interactive comprehension questions.

Experiment in the Science Zone!

- The Science Zone features interesting learning pages about liquids, solids, weather, space, and volcanoes—not to mention an engaging science experiment for each topic to take the learning off the page.

Have fun in the Game Zone!

- The Game Zone features mazes, hidden pictures, how to draw, secret codes, crossword puzzles, and more! Everything your child needs to stay entertained, and what seems like a diversion to your child actually reinforces the learning concepts taught in the other zones.

Check it out in the Answer Zone!

- A complete answer key is included to check your child's answers.

Craft Zone



Monster Sock Puppet

Turn your sock into a monster! Make your monster any animal or creature imaginable. Be creative! Give your monster a name.



What you'll need:

- Sock
- **Red** felt or fabric oval
- Fabric scraps (any colors)
- Fabric scissors
- Craft glue (try to use glue made especially for fabric)

What to do:

1. Put one hand in the sock to find where the mouth should be. Your thumb should make the bottom jaw of the monster's mouth.
2. Glue the **red** fabric oval where the mouth is formed.
3. Cut out eyes, ears, and anything else you want on your monster from the fabric scraps.
4. Glue them on the puppet any way you like.



Suggestion

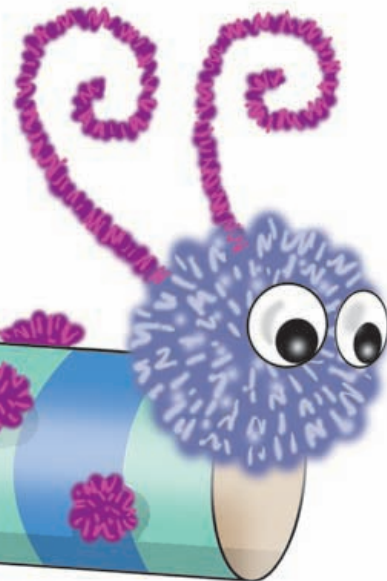
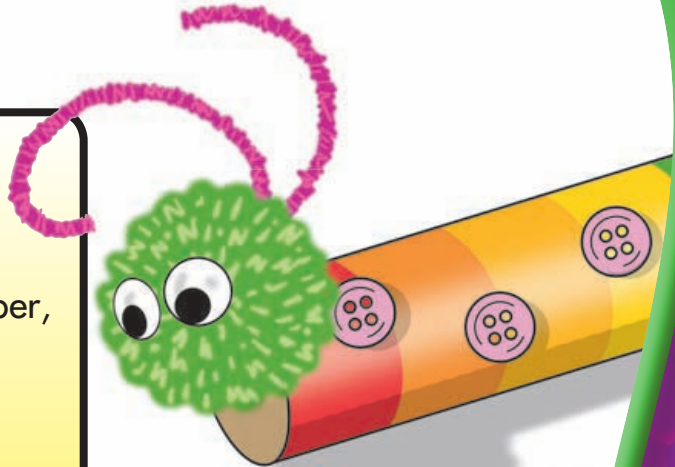
- Have an adult help you sew on the monster's features so it will last longer. Pin a piece of fabric where you want it, turn the sock inside out, and sew it into place.

Cardboard Caterpillar

You can make wild and wacky or simple and sweet caterpillars using household items and a little imagination.

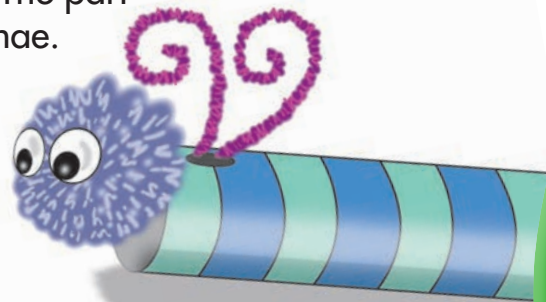
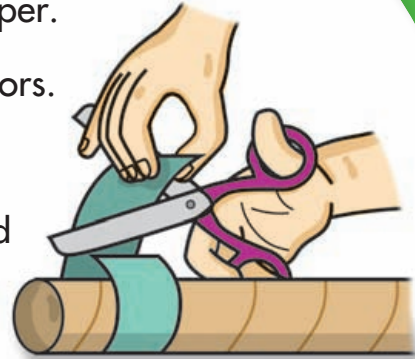
What you'll need:

- Paper towel or toilet paper cardboard rolls
- Colorful paper (tissue paper, wrapping paper, or construction paper)
- Pipe cleaner
- Pom-poms, buttons, or cotton balls
- Wiggly eyes
- Glue
- Scissors
- Paper hole punch



What to do:

1. Cut a strip of paper 1 inch wide. Wrap it around the cardboard roll. Trim off any extra paper.
2. Cut more 1-inch strips in different colors.
3. Arrange the strips in a pattern.
4. Glue each strip around the cardboard roll.
5. Punch a hole close to one end of the roll. Bend a pipe cleaner in half and stick the middle in the hole. The part sticking out forms the antennae.
6. Place a pom-pom sticking out of the same end.
7. Glue wiggly eyes on the pom-pom.



Suggestion

- Use other small decorations to create more cardboard creatures.



Paper Bag Puppet

Paper bags make fun puppets that can move on a stick and even talk! Read the story on page 113 in Story Zone. Then, make paper bag puppets of Max and Emma!

What you'll need:

- Paper lunch bag
- Newspaper
- Yarn or craft fur
- Wooden spoon, ruler, or dowel rod
- Crayons or markers
- Construction paper
- Glue
- Plastic wiggly eyes (optional)



What to do:

1. Hold the wooden spoon in the center of the bag. Fill the bag with crumpled newspaper around the spoon.
2. Tie the bag's opening tightly with yarn. Turn the bag upside down so the yarn is at the bottom.
3. Using construction paper and crayons, create a face for your puppet.
4. Use yarn to make hair.



Use the puppets you created with the stages on pages 18 and 19!

Suggestion

- You can also put your hand inside a paper bag and make your puppet talk. Decorate it with eyes, hair, a tongue, and so on.

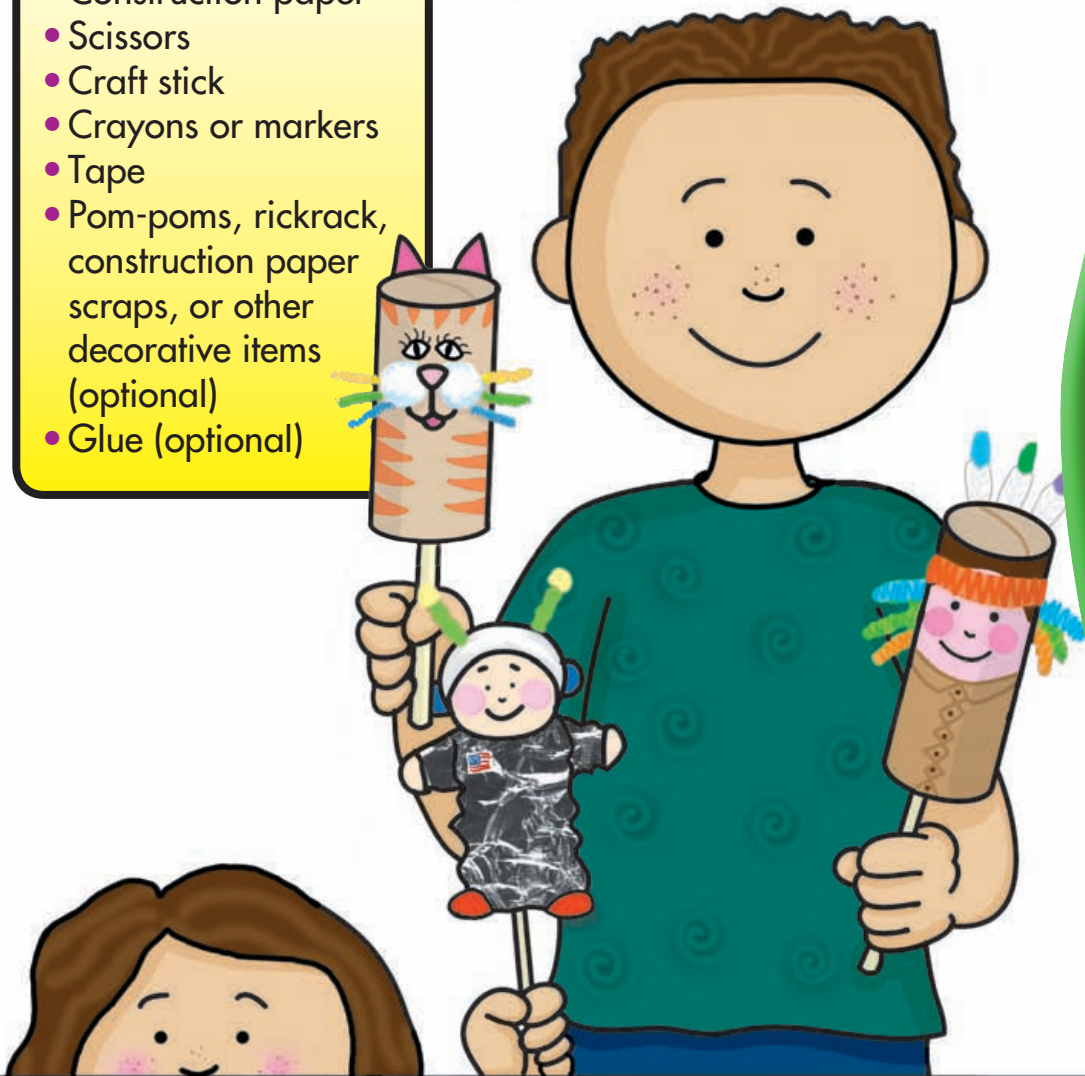


Craft Stick Puppets

These puppets are easy to make, store, and use. You can make aliens and astronauts, animals and monsters, or even yourself!

What you'll need:

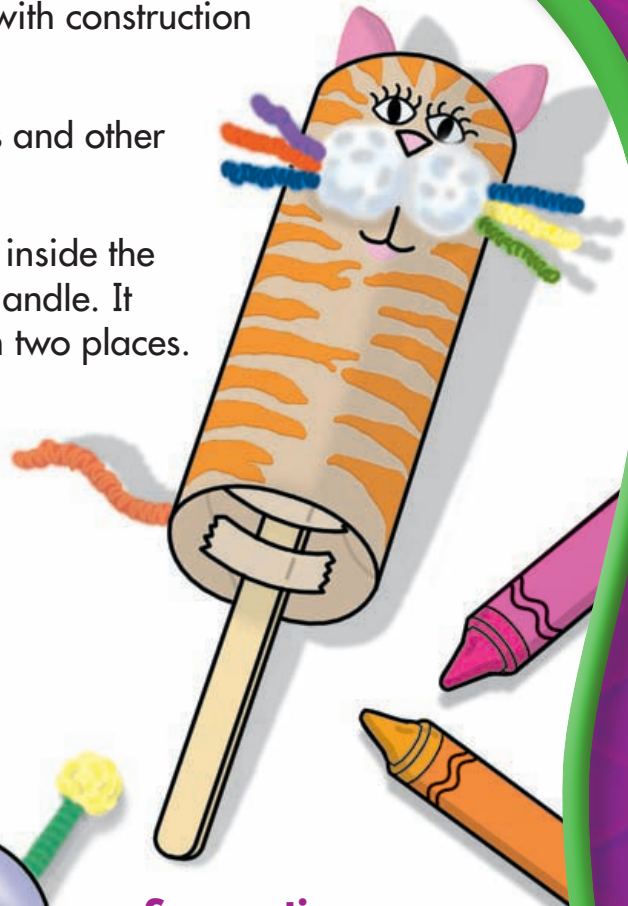
- Small cardboard roll
- Construction paper
- Scissors
- Craft stick
- Crayons or markers
- Tape
- Pom-poms, rickrack, construction paper scraps, or other decorative items (optional)
- Glue (optional)



What to do:

1. Cover the cardboard roll with construction paper, and tape it on.
2. Add features with crayons and other decorative items.
3. Tape a craft stick securely inside the bottom of the roll for the handle. It works best if you tape it in two places.

Put on a puppet show for your family and friends using the characters you created!



Suggestions

- Use a wooden paint stirring stick to make larger puppets.
- Draw your own character for Story Zone onto the craft stick.
- Try making an astronaut's space suit with aluminum foil.

King and Queen of Spoons

Turn a plain wooden spoon into royalty. These puppets are simple and fun, but don't try to cook with them when you are finished!

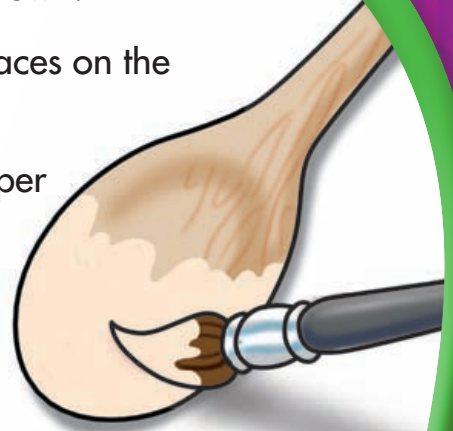
What you'll need:

- Wooden spoons
- Markers
- Tempera paint
- Paintbrush
- Construction paper or fabric scraps
- Yarn
- Glue



What to do:

1. Paint both spoons with skin color, as shown.
2. When the paint is dry, draw or paint faces on the bowls of the spoons.
3. Glue on yarn hair and construction paper crowns.
4. Wrap construction paper around the handles and glue them on for the puppet's clothes.



Suggestion

- Think of more important people you can make wooden spoon puppets of, like your teacher, a firefighter, or your family.

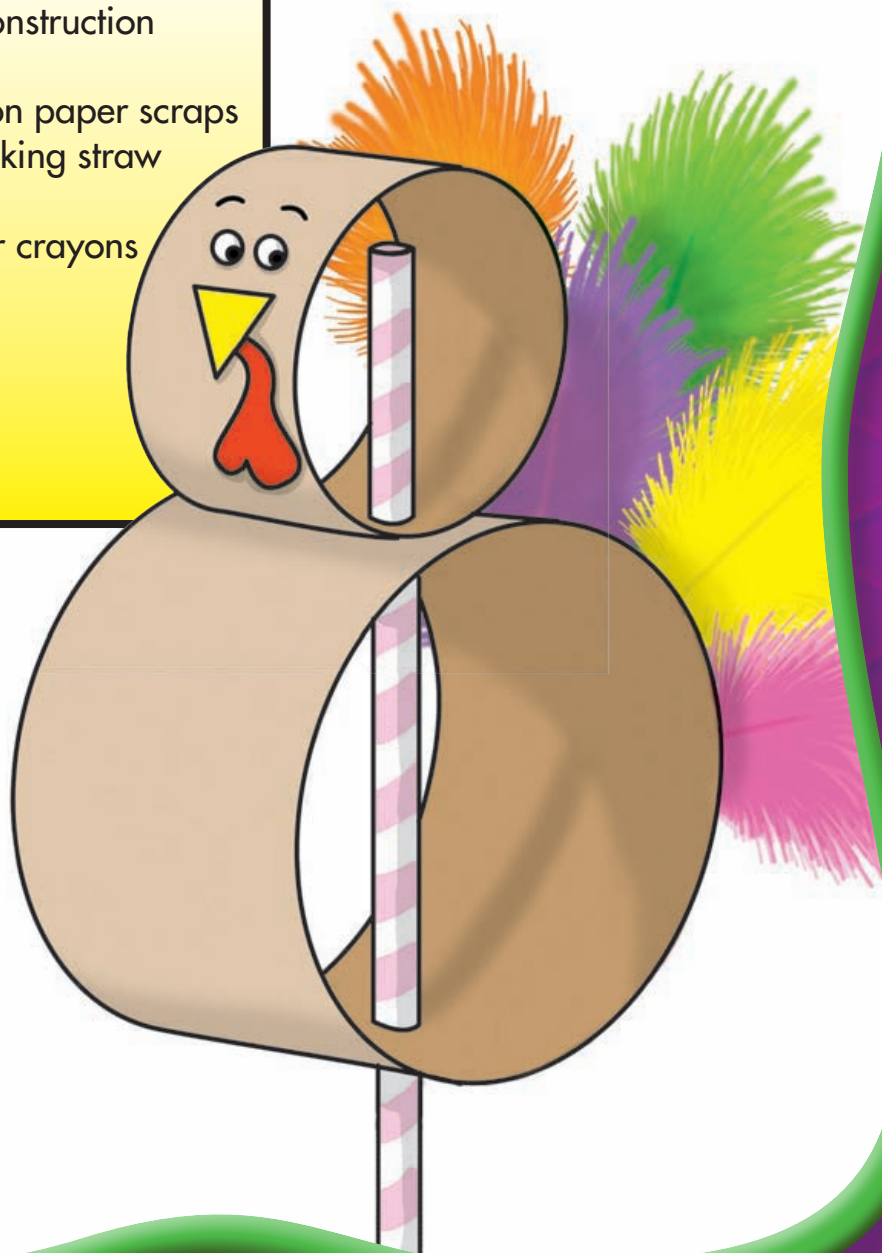


Turkey in the Straw Puppet

Use an ordinary drinking straw to bring a turkey to life. Make several for Thanksgiving decorations.

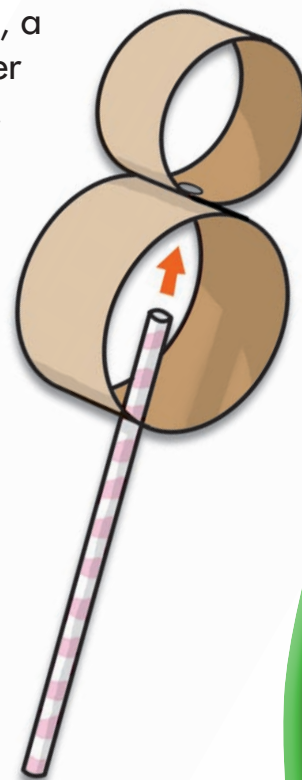
What you'll need:

- **Brown** construction paper
- Construction paper scraps
- Plastic drinking straw
- Feathers
- Markers or crayons
- Pencil
- Stapler
- Scissors
- Glue
- Tape



What to do:

1. Cut the **brown** construction paper into strips.
2. Make two **brown** construction paper rings, a large one for the turkey's body and a smaller one for its head. Then, staple them together.
3. Have an adult poke a hole in the bottom of the turkey with a sharp pencil and another hole directly above it where the head and body connect.
4. Stick a straw through both holes.
5. Tape feathers to the back of your turkey.
6. Glue on a construction paper beak and wattle, and use markers to draw eyes.

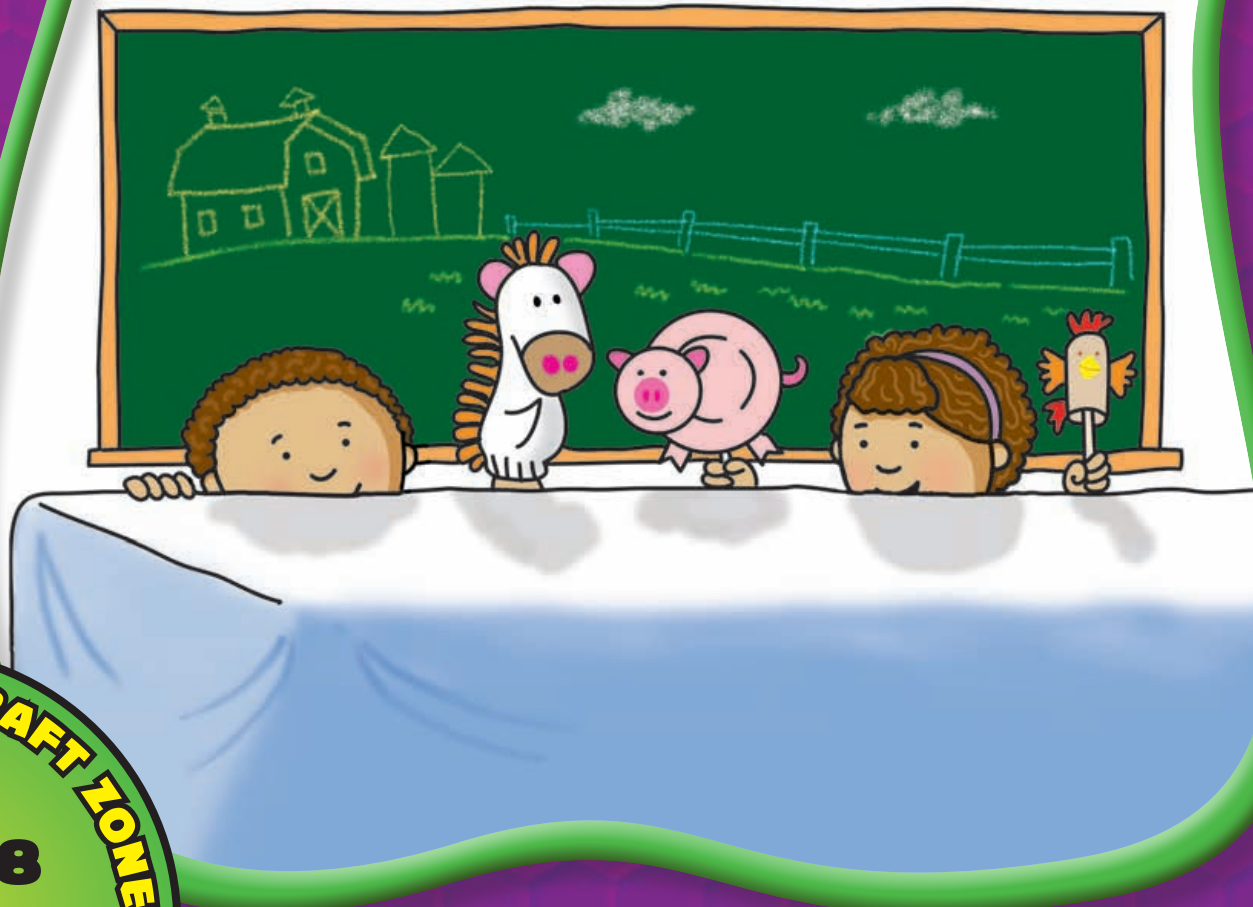


Create a Stage

Now that you've made lots of fun puppets, make a stage for yourself and your puppets. Then, put on a show!

Puppet Stage with a Background Set

Place a low table in front of a chalkboard or a large sheet of butcher paper taped to the wall. Draw scenery on the chalkboard behind the table. The table can serve as a stage and the chalkboard as a backdrop for your puppetry. Then, drape a sheet or blanket around the table. Sit beneath the table with your puppets and let the show begin.



A TV Set

To make a TV screen, cut out a rectangular hole in the bottom of a large cardboard box. Draw features such as buttons and decorate the rest of the box. Set the TV on a table that has been draped with a sheet or blanket. Get behind the box and perform on TV. You can also use the box as a stage for puppets.

Pretend you are making a newscast about Emma's science fair! Read "Emma Enters the Science Fair" on page 107 in Story Zone.



Vegetable and Fruit Print

Great food makes great art! Create a yummy picture using your favorite fruits and vegetables. Let an adult help you do the cutting.

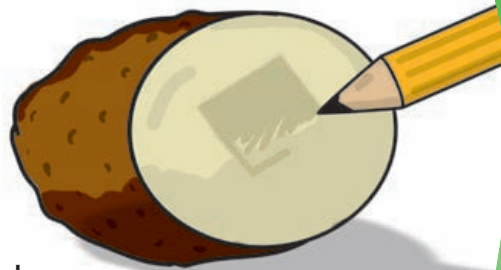
What you'll need:

- Vegetables or fruit pieces (onions, cabbage, apples, star fruit, mushrooms, etc.)
- Tempera paint
- Pie pans or aluminum foil
- Paper
- Knife (for the adult to use)
- Butter knife or pencil (optional)
- An adult



What to do:

1. Have an adult cut each vegetable and fruit in half.
2. If desired, use the pencil to carve out a large outline or picture on the vegetable or fruit. Keep it simple.
3. Pour paint into the pie pans.
4. Dip the vegetable or fruit half in the paint. Blot it on scrap paper to even out the paint.
5. Stamp the vegetable or fruit half onto the paper gently. Then, lift it straight up.
6. Dip and stamp again to create a design.
7. Continue to stamp, experimenting with placing your stamp in different directions and creating overlapping shapes.



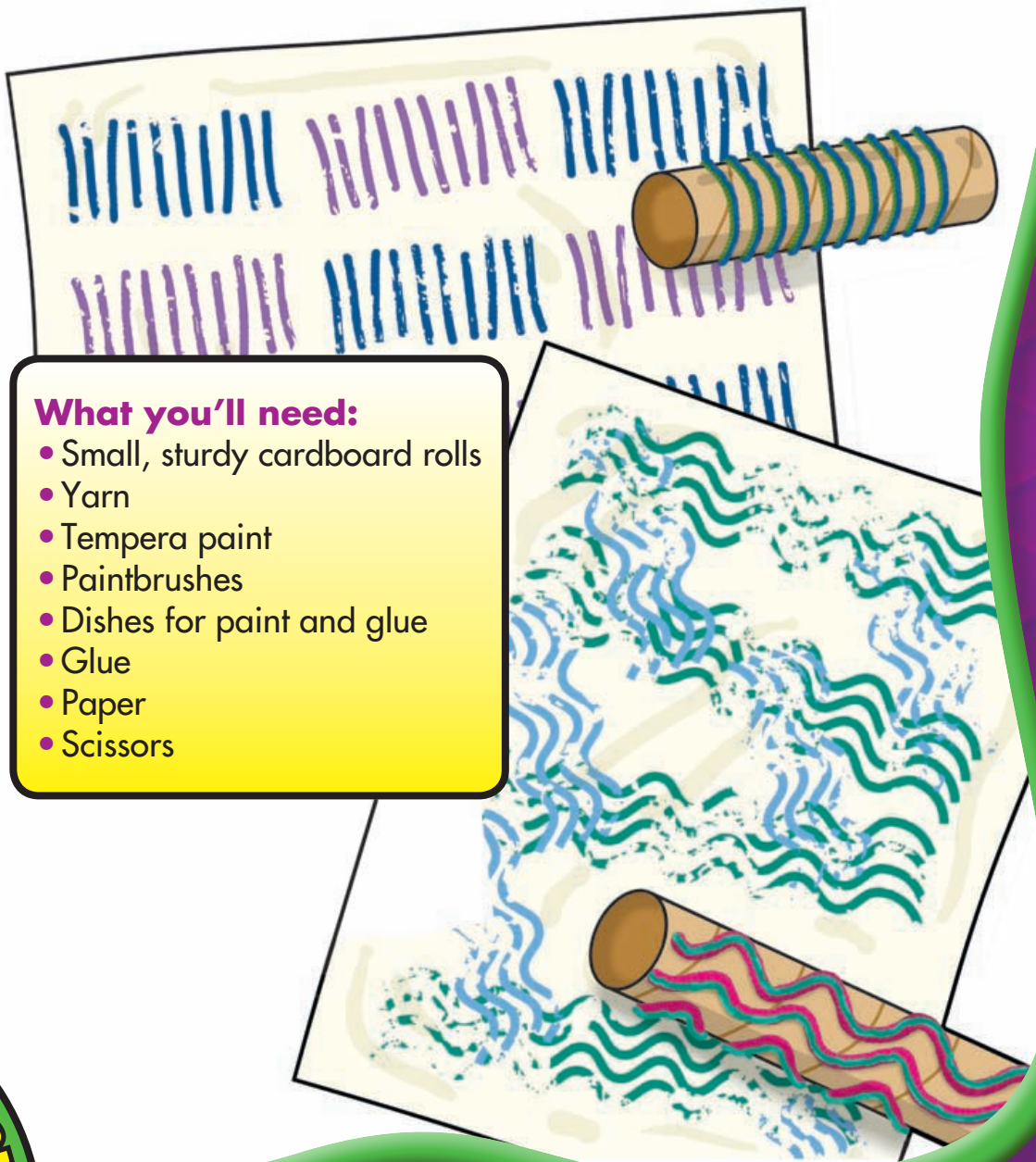
Suggestion

- Have an adult cut the vegetables into different shapes instead of in half.



Roll That Print

Make your own paint rollers. They are perfect for making borders or entire pictures. Or, you can pretend it is a secret-coded message for a friend!

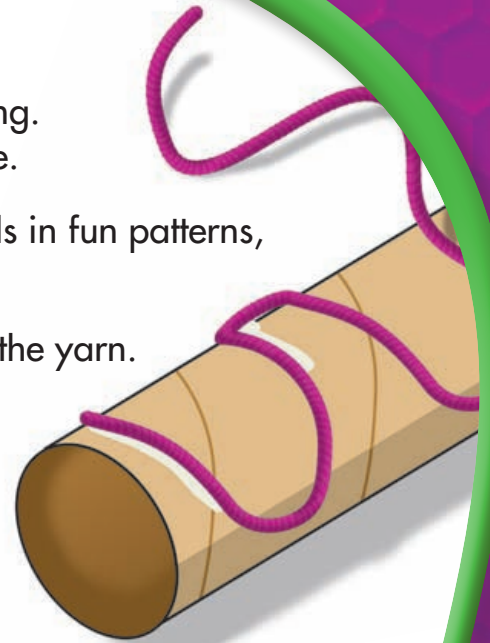


What you'll need:

- Small, sturdy cardboard rolls
- Yarn
- Tempera paint
- Paintbrushes
- Dishes for paint and glue
- Glue
- Paper
- Scissors

What to do:

1. Cut pieces of yarn 1 to 12 inches long. Then, dip the yarn into a dish of glue.
2. Attach the yarn to the cardboard rolls in fun patterns, and let it dry thoroughly.
3. Once dry, use a paintbrush to paint the yarn.
4. Roll the painted roll on paper to make print designs.



Suggestion

- This also makes a perfect border for other art projects.



Alien Paint!

Aliens use out-of-this-world paint to create their pictures! Follow the directions to make three-dimensional alien paint. Wait until it is dry, it is as much fun to touch as it is to see.

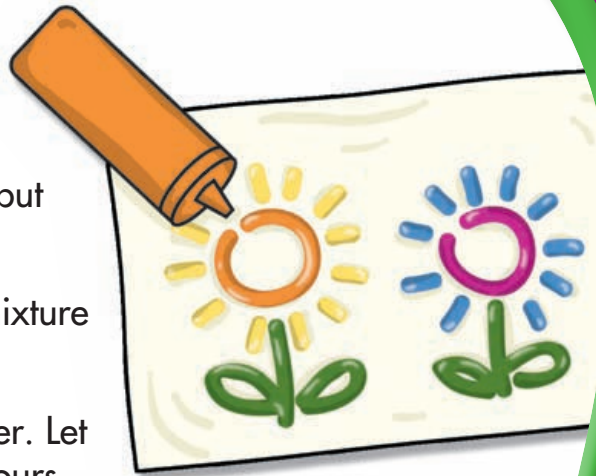
What you'll need:

- $\frac{1}{2}$ cup flour
- $\frac{1}{2}$ cup salt
- About 1 cup water
- Plastic squeeze bottle (a clean honey dispenser works well)
- 4 or 5 teaspoons tempera paint
- Paintbrushes
- Paper
- Mixing bowl
- Funnel (optional)



What to do:

1. Stir together the flour, salt, and about half the water in a bowl.
2. Add the tempera paint.
3. Slowly add more water until the mixture can be poured, but is not runny.
4. Use the funnel to pour the mixture into a squeeze bottle.
5. Squeeze the paint onto paper. Let the picture dry for several hours.



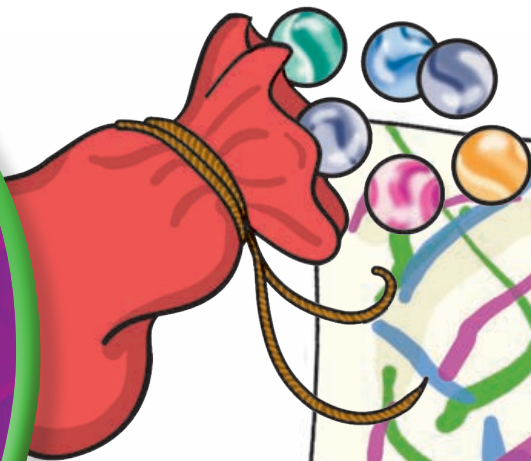
Suggestion

- Use alien paint and index cards to make a set of touch-and-feel alphabet cards. Use them for a game by putting the letters in a grocery bag and identifying each letter by touch.



Marble Painting

Do you know that you can use marbles to create art? You never know what design you will get. Roll the marbles and watch the design appear.

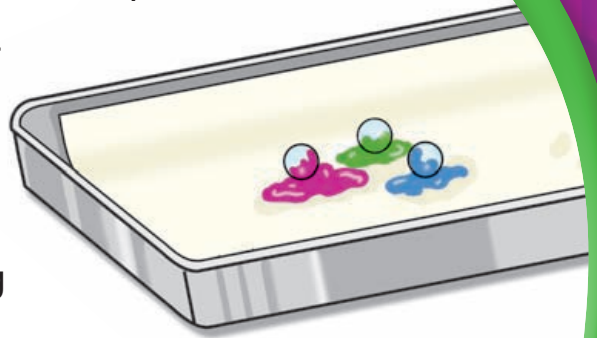


What you'll need:

- Marbles or small rubber balls
- Pie pan or another type of metal pan
- Tempera paints
- Paper
- Scissors

What to do:

1. Cut the paper to fit in the bottom of a pan.
2. Squeeze a few drops of paint onto the paper. Then, put a few marbles into the pan. You can use different colors of paint at once or wait until one color dries before adding another color.
3. Hold the pan and gently roll the marbles back and forth through the paint.



Snowy Painting

Your snowy scene looks almost real with this project. Create another background scene for a completely different picture!

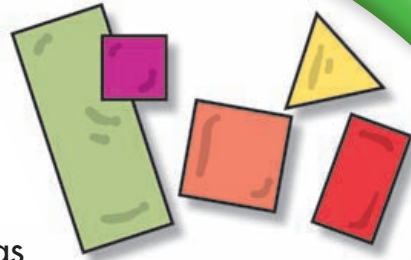
What you'll need:

- Dark **blue** or **black** construction paper
- Construction paper in other colors
- Thick, **white** tempera paint
- Small sponge
- Cotton balls
- Pie pan
- Aluminum foil
- Glue
- Scissors



What to do:

1. Cut colored construction paper into various sizes of triangles, squares, and rectangles.
2. Use the shapes to create buildings and houses on the **black** or **blue** construction paper.
3. When you are satisfied with your scene, glue the paper shapes in place.
4. Cut out window shapes from aluminum foil, and glue them to the buildings.
5. Pour a small amount of *white* tempera paint into a pie pan.
6. Dip a sponge in the paint, and then blot the paint gently onto the paper to create snow.
7. Stretch cotton balls across the bottom of the paper to make more snow. Glue it in place.



Kid-Size Drum

What makes people dance and sing? Music! Join the party and make your own drum.

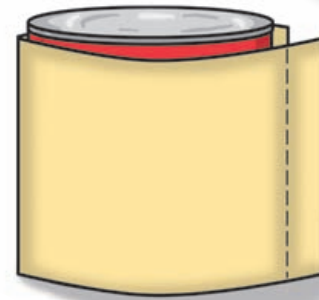
What you'll need:

- Coffee can with the plastic lid
- Construction paper
- Crayons, markers, or paint
- Tape
- Scissors

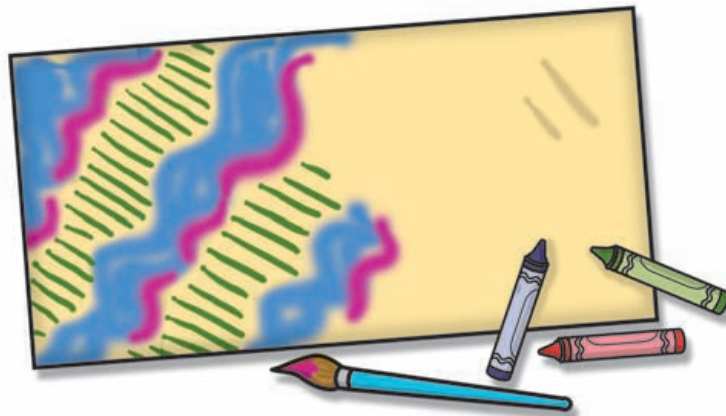


What to do:

1. Cut the construction paper to fit around the coffee can.
2. Decorate your paper.
3. Cover the can with the paper and tape it on.
4. Beat rhythms on the lid with your hands.



Play a song for your friends using your new drum!



Suggestion

- Fill a one-pound coffee can with water. Stretch an inner tube over the top tied on tightly with heavy rubber bands. This drum makes a wonderful sound.

Tambourine

Add a little spice to your music! Shake your tambourine for a rattle, and tap the sides for a beat.

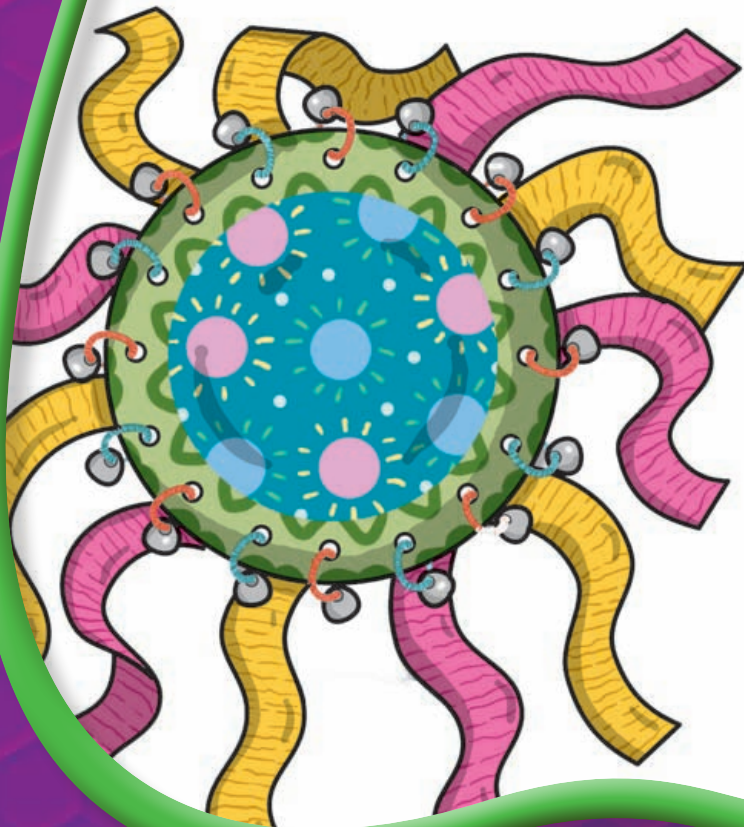
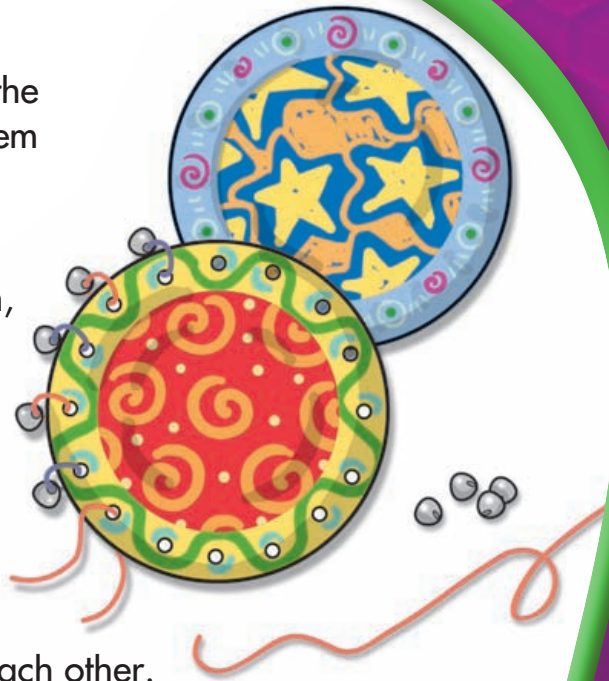
What you'll need:

- Two 9 inch paper plates
- Crayons, felt-tip pens, watercolors, tempera paint, or acrylic paint
- Jingle bells
- Rice, shelled corn, small pebbles, plastic beads, dried beans, or peas
- Yarn, narrow ribbon, or pipe cleaner
- Glue
- Paper hole punch



What to do:

1. Color or paint a design on the bottoms of the plates. Let them dry completely.
2. Punch holes about 2 inches apart around the rims. Then, tie a jingle bell at each hole with a length of yarn.
3. Place a handful of rice onto one plate.
4. Glue the paper plates together, rim-to-rim, with the eating surfaces facing each other.
5. Hold the rims tightly and shake or tap the tambourine.



Suggestions

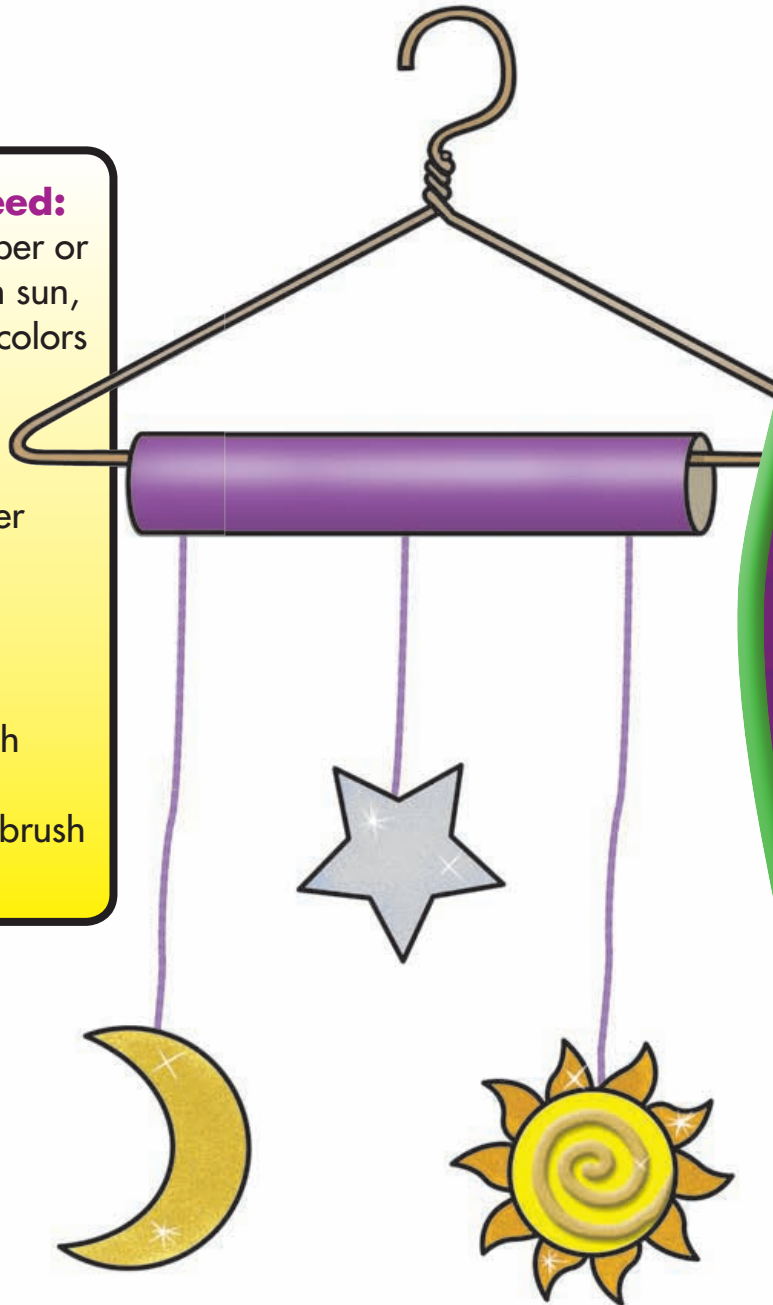
- Use a paper hole punch to make holes, evenly spaced, around the rims. Thread colored pipe cleaners through the holes and twist to secure.
- Cut 12 tissue paper strips (about 1 inch by 9 inches). Glue the end of the strips between the plates (before step 3) to create streamers.

Sun, Moon, & Stars Mobile

Make this mobile and watch the sky twirl above your head!

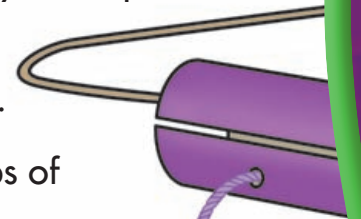
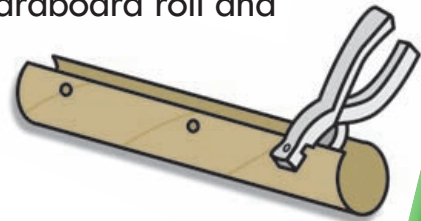
What you'll need:

- Construction paper or heavier paper in sun, moon, and star colors
- Yarn
- Wire clothes hanger
- Cardboard paper towel roll
- Glue
- **Gold** glitter
- **Silver** glitter
- Paper hole punch
- Scissors
- Paints and paintbrush (optional)



What to do:

1. Cut two suns, moons, and stars out of the construction paper.
2. Cover one side of each shape with a thin coat of glue.
3. Sprinkle **gold** glitter onto the suns. Then, sprinkle **silver** glitter on the moons and stars. Let them dry.
4. Cut a long slit all the way down the cardboard roll and punch holes from the slit, as shown.
5. If desired, paint the roll.
6. Cut three pieces of yarn.
7. Knot each piece of yarn several times until the knot is bigger than the hole. Pull each piece of yarn through a hole in the roll (with the knot keeping the yarn in place).
8. Slide the roll onto the clothes hanger and twist it so the holes are at the bottom.
9. Sandwich each yarn end between the tops of the two shapes, which are back to back.
10. Glue the shapes together so the yarn cannot be pulled out.
11. Hang your mobile in a breezy place.



Learn more about the Sun and moon in the Science Zone! Flip to pages 138-143.

Suggestion

- Now, add your favorite planet to the mobile!

Galaxy Tie Dyeing

Your clothes can look like swirling space galaxies! Decorate your clothes with this special project, but get your parent's permission first!

What you'll need:

- A piece of cotton clothing—a T-shirt works well*
- Fabric dye**
- Buckets or other containers for dye, one for each color
- Large plastic bag or piece of plastic
- Rubber gloves
- Rubber bands (optional)
- Eyedropper, squeeze bottle, or paintbrush (optional)
- An adult



* Have an adult wash the piece of clothing before doing this project. Do not use fabric softeners or dryer sheets.

** Any kind will do, but make sure to read the label before buying it; some dyes call for extra ingredients.

What to do:

1. Have an adult make the dye, following the directions on the package. Anyone working with the dye throughout the project should wear rubber gloves. Doing the project outside is ideal.
2. Tie off the T-shirt. You can knot or bundle up sections and put rubber bands on them. See page 38 for different ways to tie it off. Whichever way you choose, make sure to do it tightly, so that dye stays out of those areas.
3. Have an adult dye your shirt. See page 39 for different ways to dye it. Whichever way you choose, remember that the longer you leave the fabric in the dye, the darker the color will be. Also, the dye will be lighter when dry. To mix colors on your shirt, dye it with a new color. If you want the colors separated, let them dry first.
4. Dry the fabric completely in plastic for one to three days.
5. Rinse your project in warm water, one section at a time, then in cool water. Take off the rubber bands (or untie the knots) and rinse the shirt again.
6. Have an adult wash the shirt alone before adding it to the regular laundry.



Suggestions

- Some dyes will set better if you have an adult place the fabric between two sheets of paper and steam it with an iron.
- Tie-dye scarves, socks, hats, pillowcases, fabric napkins, or anything made with cotton.

Ways to Wrap the Shirt

Each shirt is its own original project and will be different even if you wrap it the same way.

Regular Tie Dye:

Tie knots in sections of the fabric all over the shirt. Dip different sections into the dye, switching colors as you choose.



Sunburst:

Pinch the fabric near the center of the shirt. Lift up and twist it into a tight spiral. Then, roll it into the shape of a donut. Keep it in place with rubber bands. Drip dye on top, then turn it over and drip dye on top again or dip it into one color.

Star:

Choose five places on the shirt to be the points of your star. Bring the edges of them to the center of the shirt. Put rubber bands around the rest of the star's arms. Dye the center using a squeeze bottle or eyedropper. Use a different color on the next sections out from the center. Change colors when you get to the second set of sections from the center, and so on.



Ways to Dye the Shirt

- Dunk the entire shirt in one color. If you want to change the color, dunk it in another color afterward.
- Dip sections into a color. Dip sections into different colors, if desired. The colors will probably run together depending on how close they are.
- Use an eyedropper or a squeeze bottle to make designs and to keep the colors separate.

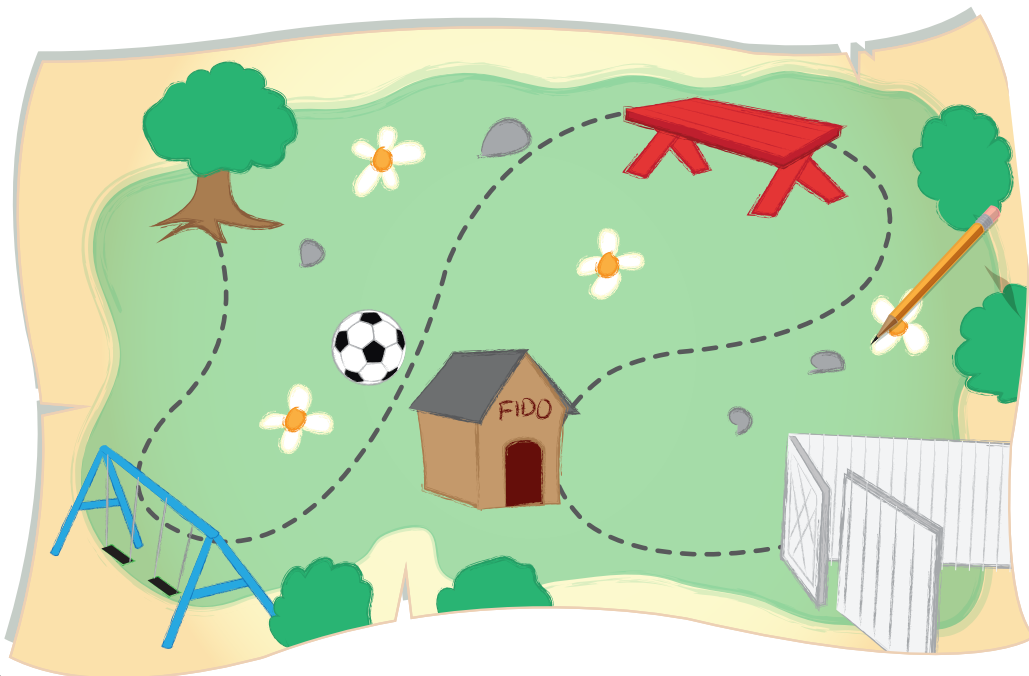


Treasure Map

Get ready for adventure! Make your own treasure map using simple household items.

What you'll need:

- White paper
- $\frac{1}{2}$ cup of cold coffee or tea
- Blow-dryer
- Cookie sheet or large plate
- Markers or crayons

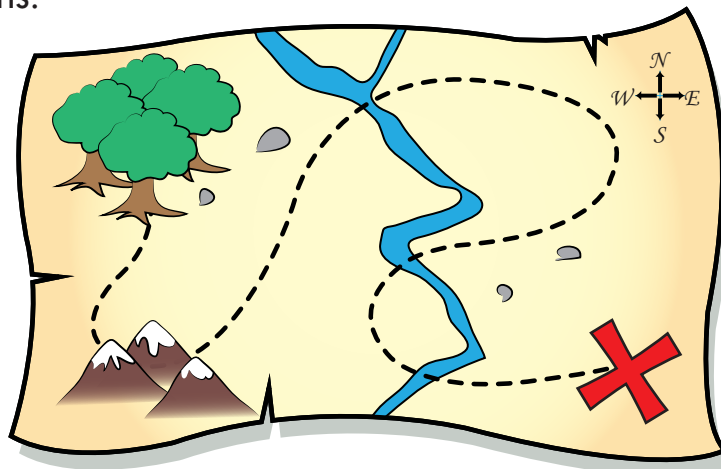


What to do:

1. Rip the edges off of a piece of white paper.
2. Crumple the paper into a ball. Then, flatten it out.
3. Lay the paper on a cookie sheet or plate.
4. Pour or dab the coffee or tea over the paper. Let it sit and absorb the stains for five minutes.
5. Pour off any extra liquid.
6. Then, blow dry the paper on the cookie sheet for about five minutes (do not try to lift it when wet, it will tear easily).
7. When the paper is fully dry, draw your map with markers or crayons.



Read "Max's Map" in the Story Zone! It starts on page 101.



Suggestion

- Hide objects around your house or yard for your friends and family to find. Make a map to help them find the treasure!

Do-It-Yourself Play Clays

Pages 43–47 are recipes for making your own easy-to-use play clay. You might choose to make one instead of another, depending on your own likes and dislikes. Some clays are best for using over and over again. Some clays are for projects you want to keep. Two of the clays can even be eaten! Some clays feel very hard, while others feel very soft. Experiment with all the clays and discover for yourself which is the best one for you!

There are certain techniques to try when working with any clay.

- Rolling the clay is one good way to shape it. You can roll it by moving the clay back and forth on a table or by holding the clay between your hands and rubbing your hands back and forth like when you are trying to get warm.
- You can shape clay with stencils. Press the stencil over flattened clay to imprint the clay. Or squeeze the solid block of clay through a stencil to form a shape.
- Use blocks or other objects to press into flattened clay.



Goopy Goo

You will love playing with goopy goo. Goo is like liquid clay. It is great to stretch, pull, and form your own creations. Be sure to keep it in a bag, and it will stay wet!

What you'll need:

- 1 cup liquid starch
- 2 cups glue
- Resealable plastic bag
- Food coloring (optional)

What to do:

1. Pour the glue and liquid starch into a plastic bag and seal it.
2. Gently knead (press and squeeze) the bag to mix the ingredients.
3. Add food coloring, if desired, and continue kneading the bag for about 20 minutes. If the mixture still seems thin, add more starch. Add glue if it gets too thick.
4. Store the goo in an airtight plastic bag.



Play Clay

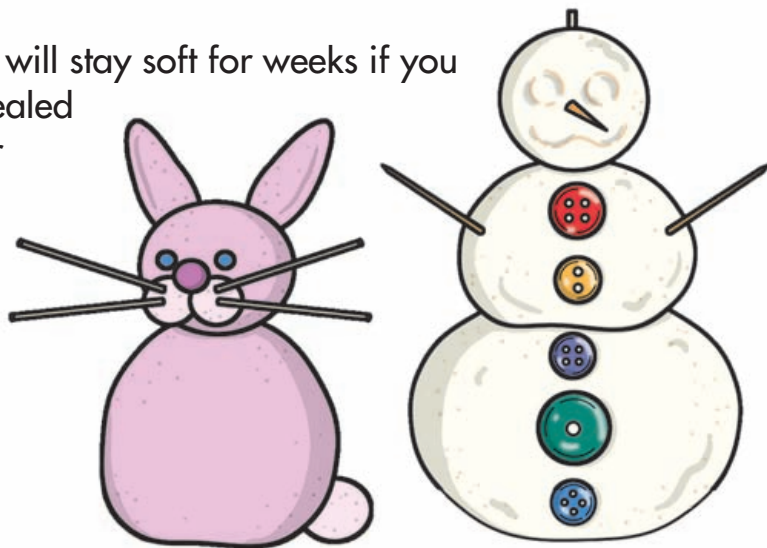
You can use Play Clay over and over again and it will never harden. Make animals, dinosaurs, people, and buildings. Then, squish them together and start all over!

What you'll need:

- 2 cups sifted flour
- 1 cup salt
- 6 teaspoons alum (found in the baking section of most grocery stores, it acts as a preservative)
- 2 tablespoons salad oil
- 1 cup water
- Medium sized mixing bowl and spoon
- Resealable plastic bags or containers
- Food coloring (optional)

What to do:

1. Food coloring may be added to the water before mixing, if color is desired.
2. Mix all materials together in the bowl until they are smooth.
3. The play clay will stay soft for weeks if you keep it in a sealed plastic bag or container.



Self-Hardening Clay

Create a sculpture you can keep without using an oven!

What you'll need:

- 4 cups flour
- 1 teaspoon alum
- $1\frac{1}{2}$ cups salt
- $1\frac{1}{2}$ cups water
- Mixing bowl
- Resealable plastic bag
- Spoon



What to do:

1. Mix the salt, flour, and alum in a bowl.
2. Add the water gradually to form a ball.
3. Knead (pound, roll, and pull) the clay, adding water until it no longer falls apart.
4. Store in a sealed plastic bag in the refrigerator. Wait for the clay to become room temperature for easy use.
5. Let your finished project dry at room temperature for two days. It will be very hard and can be painted.

Frozen Bread Clay

If you love to make clay, build with clay, and eat clay, then this project is for you! Be sure to wash your hands and all working areas before you begin.

What you'll need:

- Frozen bread dough, thawed
- 1 teaspoon cinnamon
- 1 teaspoon sugar
- Greased cookie sheet
- Oven, preheated to 350 degrees
- An adult



What to do:

1. Frozen bread dough can be thawed overnight in a refrigerator.
2. Knead (pound, roll, and pull) the dough.
3. Shape the dough into letters or other shapes. Make sure each shape is about the same thickness. Otherwise, you will burn some parts and undercook others.
4. Sprinkle a mixture of the cinnamon and sugar on them.
5. Place the shaped dough on a greased cookie sheet. Then, have an adult bake it in a 350-degree oven for 15 to 20 minutes.
6. Let it cool for a few minutes, and then eat!

Can you spell your name with your bread clay?

Peanut Butter Clay

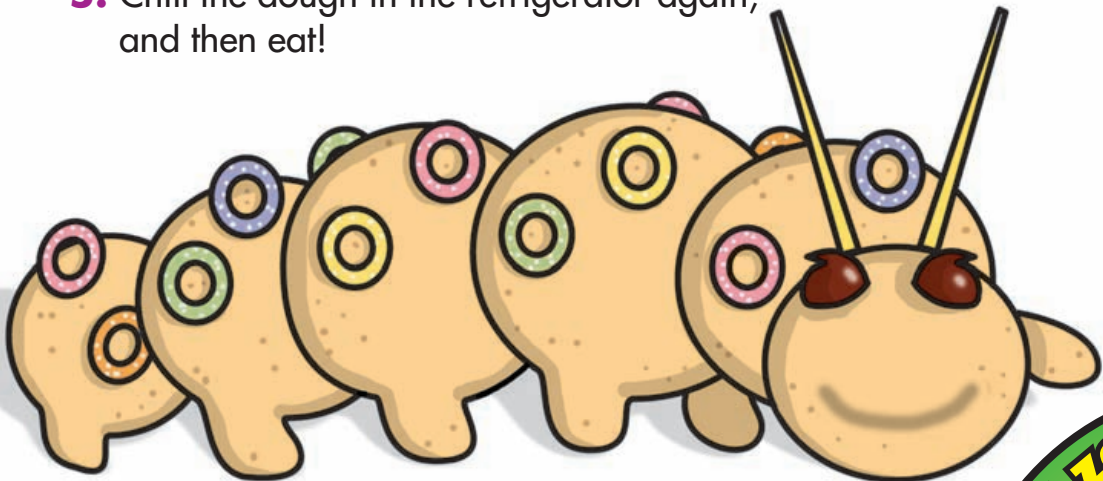
If you love peanut butter, then you will love making, playing, and eating this project.

What you'll need:

- 1 cup peanut butter
- 1 cup nonfat dry milk
- 1 cup honey
- Mixing bowl and spoon
- Plastic utensils
- Raisins, dry cereal, nuts, chocolate chips (optional)

What to do:

1. Mix the peanut butter, dry milk, and honey together in a bowl until it feels like soft dough.
2. Refrigerate your dough for one hour.
3. Shape the dough into your own creations.
4. If desired, add raisins, dry cereal, nuts, and chocolate chips to make eyes, a nose, ears, wings, feet, and so on.
5. Chill the dough in the refrigerator again, and then eat!



Pinch Pot

This project takes several days, but, by the end, you will have your own piece of beautiful pottery.

What you'll need:

- Self-hardening clay (see page 45)
- Tempera paint
- Paintbrushes and paint dishes
- Glue
- Water



What to do:

1. Roll the clay into a ball.
2. Poke your thumb into the center of the ball to make an opening for the pot.
3. Turn the clay in your hand and pinch the opening wider with your thumbs.
4. Allow the pot to dry for two days.
5. When your pot is hardened and completely dry, paint it.
6. When your pot dries again, mix an equal amount of glue and water together.
7. Brush the mixture on the pot to protect the finish.



Bubbles

You can have your own endless supply of bubbles, and just think, you can make them anytime you want!

What you'll need:

- $\frac{1}{2}$ cup glycerine (may be purchased at a pharmacy)
- $\frac{1}{2}$ cup water
- 1 tablespoon liquid dishwashing detergent
- Glass jar with a lid
- Bubble pipe, bubble wand, plastic drinking straws, twist ties, slotted spoons, or clothes hangers
- Baking pan (optional)

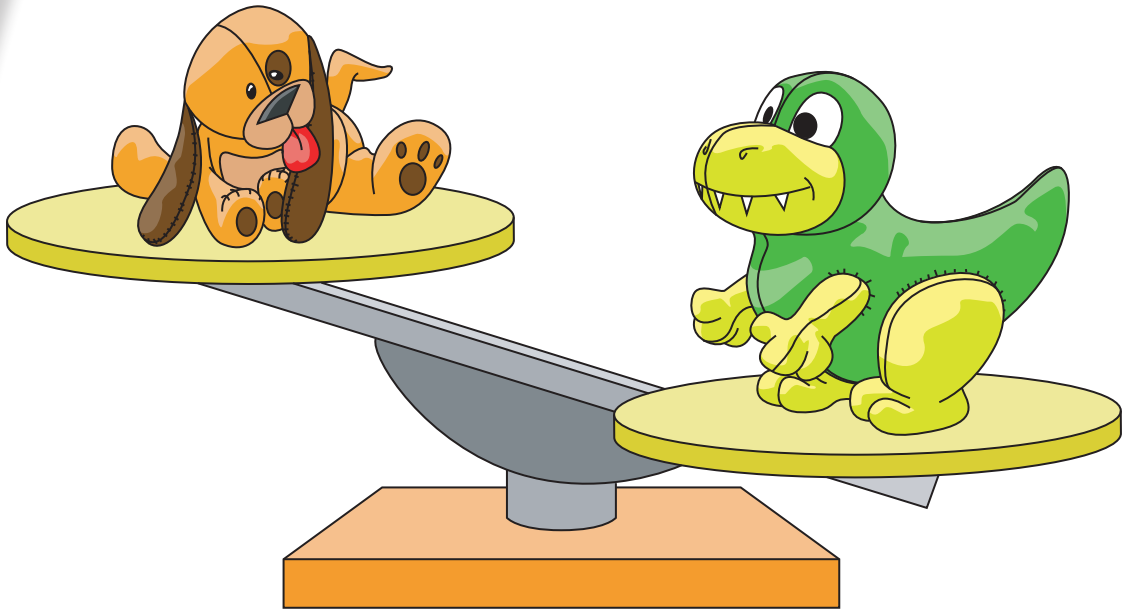
What to do:

1. Mix all the ingredients in a jar.
2. Make bubble wands out of twist ties, slotted spoons, clothes hangers, or straws.
3. Pour some of the bubble mix into a baking pan if you are making larger bubbles.
4. You can reuse the bubbles as long as you keep the jar tightly closed when you are finished playing.
5. Share your bubbles with a friend!

Use the bubbles for an experiment in the Science Zone! Check out page 133.



Math Zone



Number Recognition

Directions: Use the color code to color the parrot.



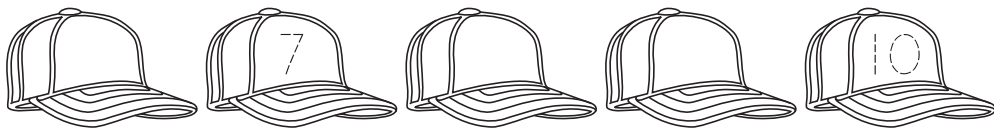
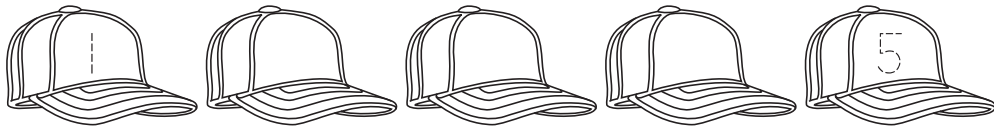
Number Recognition: Mix and Match Up

Directions: Cut out the pictures and number words below.
Mix them up and match them.

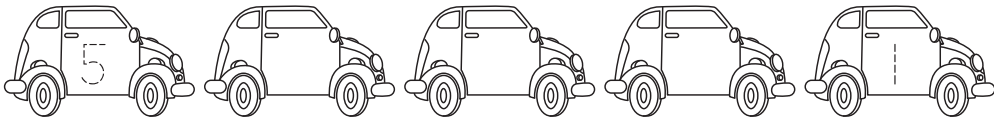
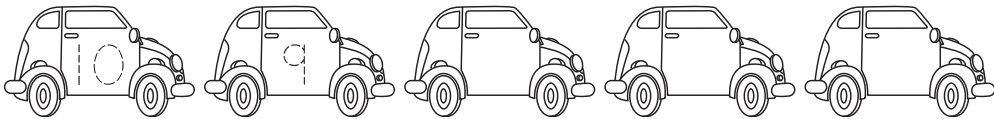
one	six		
two	seven		
three	eight		
four	nine		
five	ten		

Counting

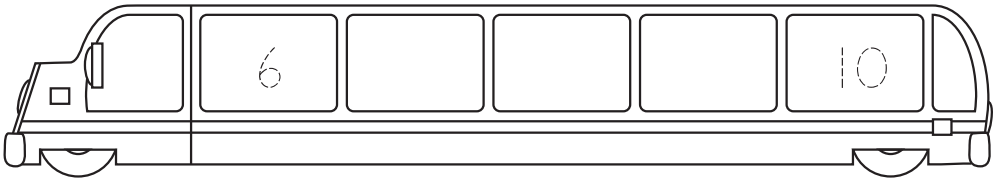
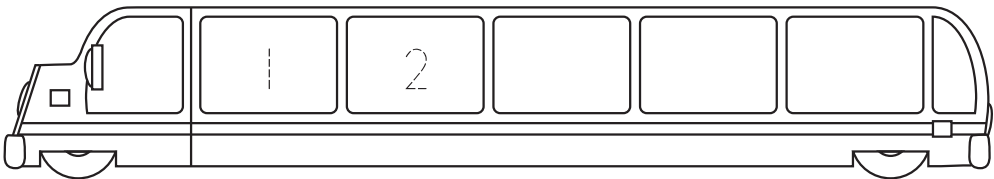
Directions: Count forward. Write a number on each .



Directions: Count backward. Write a number on each .

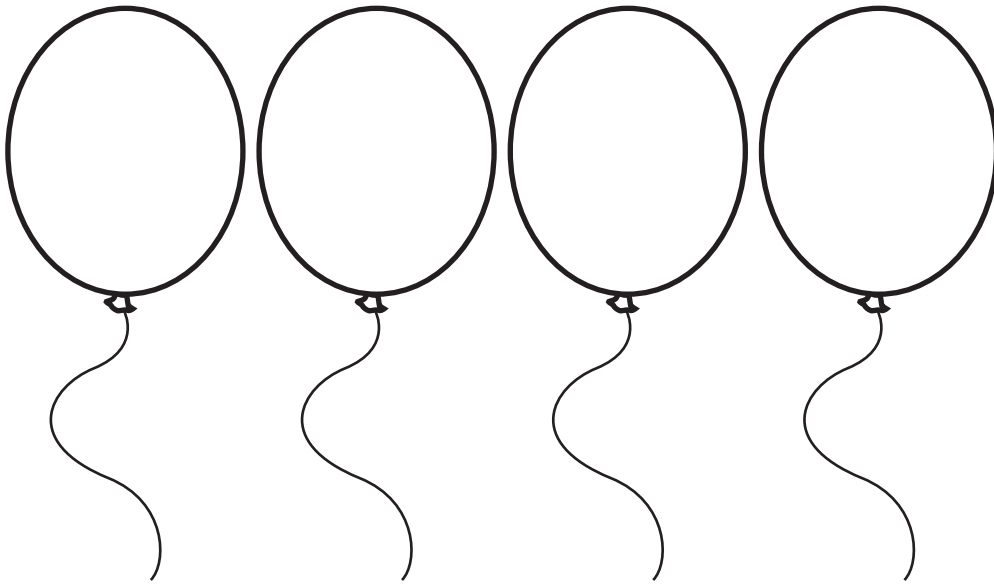


Directions: Count the . Write the numbers in order.



Ordinal Numbers: Birthday Balloons

Max and Emma are at a birthday party! Which balloon will they pick? Look at the balloons and follow the directions.

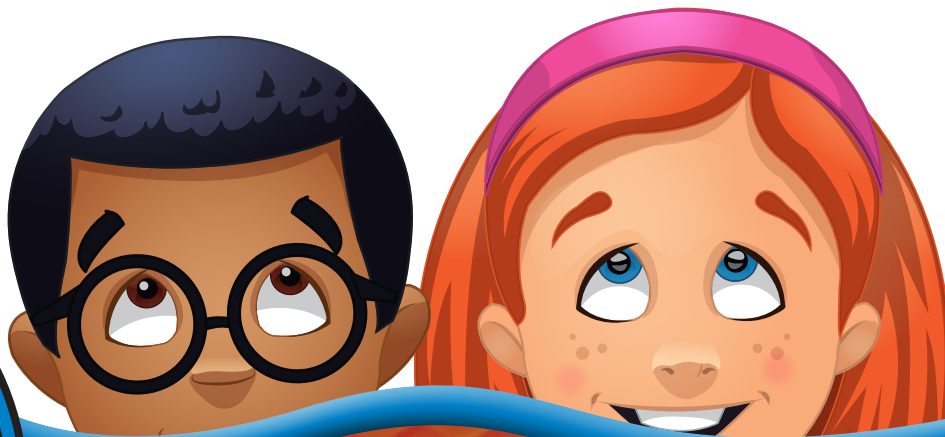


Directions: Color the **second** balloon **red**.

Draw a smiley face on the **fourth** balloon.

Draw **blue** and **green** stripes on the **first** balloon.

Draw an animal on the **third** balloon.



Ordinal Numbers: Ice Cream Dilemma

Max and Emma love ice cream. Help them decide which ice cream cone to eat first and which to eat last.

Directions: Draw a line to the picture that matches the ordinal number in the left column.

eighth

third

sixth

ninth

seventh

second

fourth

first

fifth

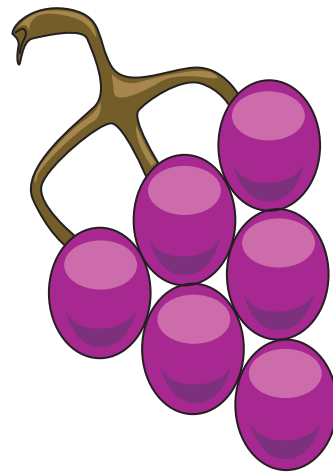
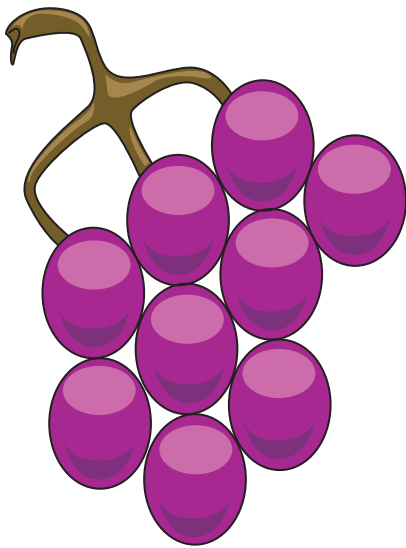
tenth



More Than

The symbol $>$ means **more than**. It is written like this: $7 > 5$.

Directions: Count the grapes. Write the numbers on the lines. Use the symbol $>$ to write which bunch has more.

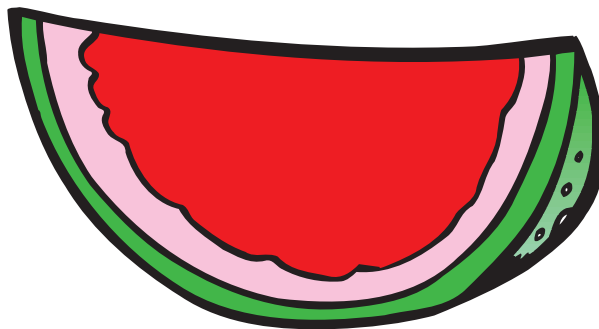
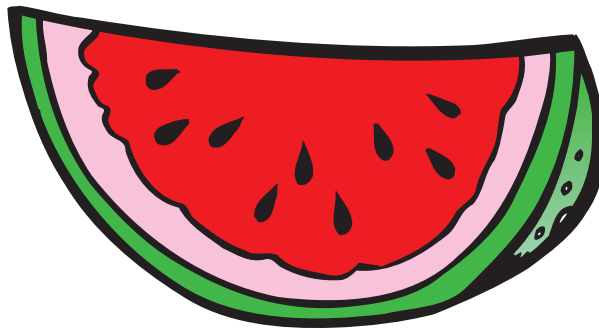


_____ ○ _____

Less Than

The symbol $<$ means **less than**. It is written like this: $6 < 7$.

Directions: Count the seeds on the watermelon. Draw less seeds on the watermelon below it.



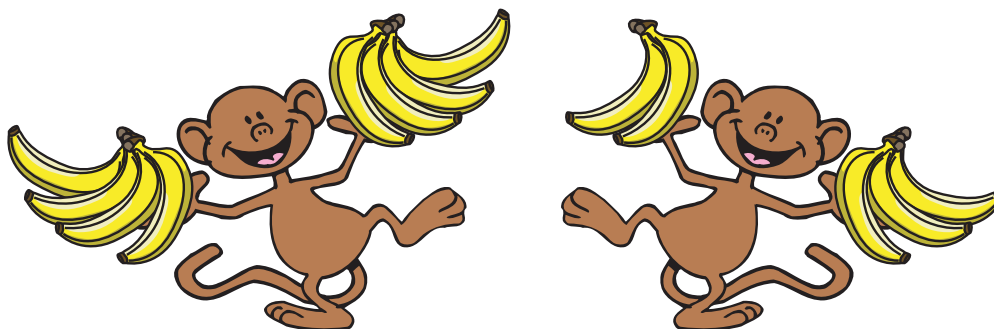
Directions: Fill in the number of seeds you drew on the line below. Then, write the math symbol that means **less than**.

_____ ○ 9

Crazy for Bananas!

The monkeys at the zoo eat a lot of bananas. Which monkey eats more?

Directions: Count the bananas. Circle the monkey that eats more. Write the missing math symbol in the circle.



$$8 \bigcirc 5$$

Directions: Write the missing math symbol in each circle.

$$18 \bigcirc 15$$

$$20 \bigcirc 12$$

$$4 \bigcirc 6$$

$$2 \bigcirc 1$$

$$10 \bigcirc 5$$

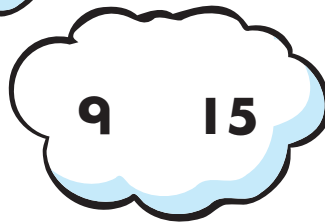
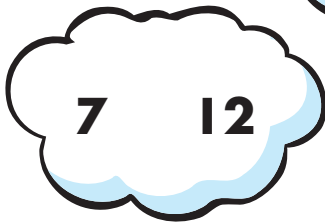
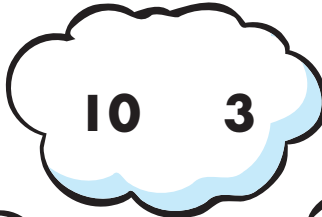
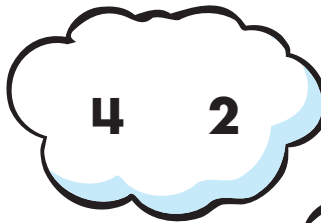
$$14 \bigcirc 13$$

$$7 \bigcirc 3$$

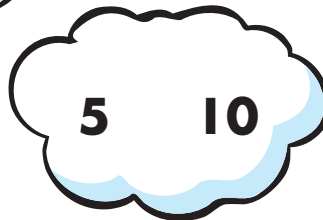
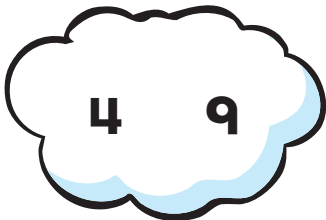
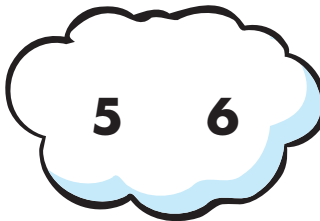
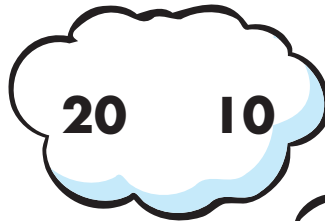
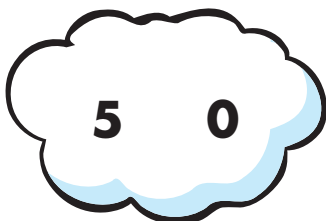
$$7 \bigcirc 11$$

More and Less

Directions: For each pair of numbers, draw a circle around the number that is more.



Directions: For each pair of numbers, draw a circle around the number that is less.



Apple Addition

Addition means putting together or adding two or more numbers. When you add two numbers together you get a **total** or **sum**. The symbol used for addition is called a **plus sign** (+). The symbol used for a total is an **equal sign** (=).

Directions: Count the apples and write how many.

$$1 + 1 = 2$$

$$1 + 2 = 3$$

$$3 + 1 = 4$$

$$2 + 3 = 5$$

Addition

Directions: The key words **in all** tell you to add. Circle the key words **in all** and solve the problems.

A monster has 4 **yellow** shoes and 2 **red** shoes.
How many shoes does the monster have in all?

$$4 \bigcirc 2 = \underline{\quad}$$

Now, draw the monster wearing all the shoes.



A monster is wearing 2 hats. Then, it puts on 7 more hats.
In all, how many hats is it wearing?

$$2 \bigcirc 7 = \underline{\quad}$$

Now, draw a monster wearing all the hats.

Emma's Addition

Emma loves addition! Help Max solve the math problems she wrote for him. Then, create your own addition problem for a friend.

Directions: Add the numbers.

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 0 \\ \hline \end{array}$$

Directions: Create your own problem.
Give it to a friend to solve.

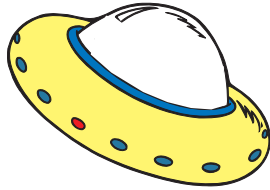
_____ + _____ = _____



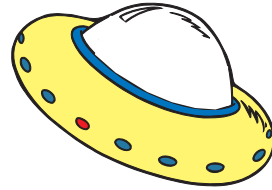
Spaceship Addition

Directions: Add the numbers. Write each answer on the spaceship.

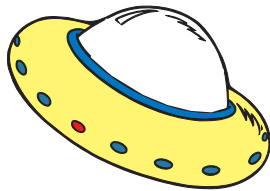
$2 + 4 =$



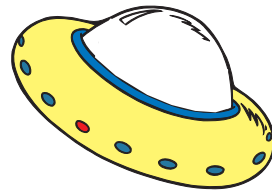
$1 + 3 =$



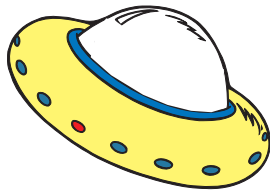
$3 + 2 =$



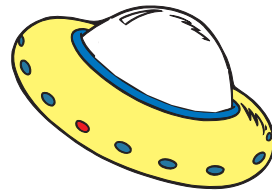
$5 + 1 =$



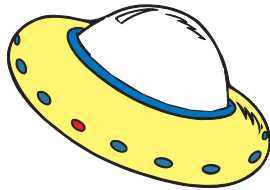
$2 + 2 =$



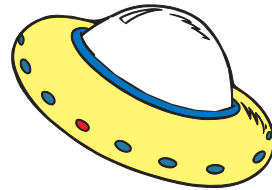
$6 + 2 =$



$4 + 6 =$




$2 + 7 =$



Addition Problem Solving


Directions: Solve each problem. Show your work. The first one is done for you.


There are 4  .

5 more  come.


$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

Now, how many are here? 9

There are 5  .


There are 6  .

How many  and  in all? _____

Jenny has 5  .

She finds 2 more  .

What is the sum of $5 + 2$? _____

There are 8  .

2  join.

What is 8 plus 2? _____

Addition: Color Code

Directions: Add to find the sum. Use the code to color the picture.

Color Code:

1 = red

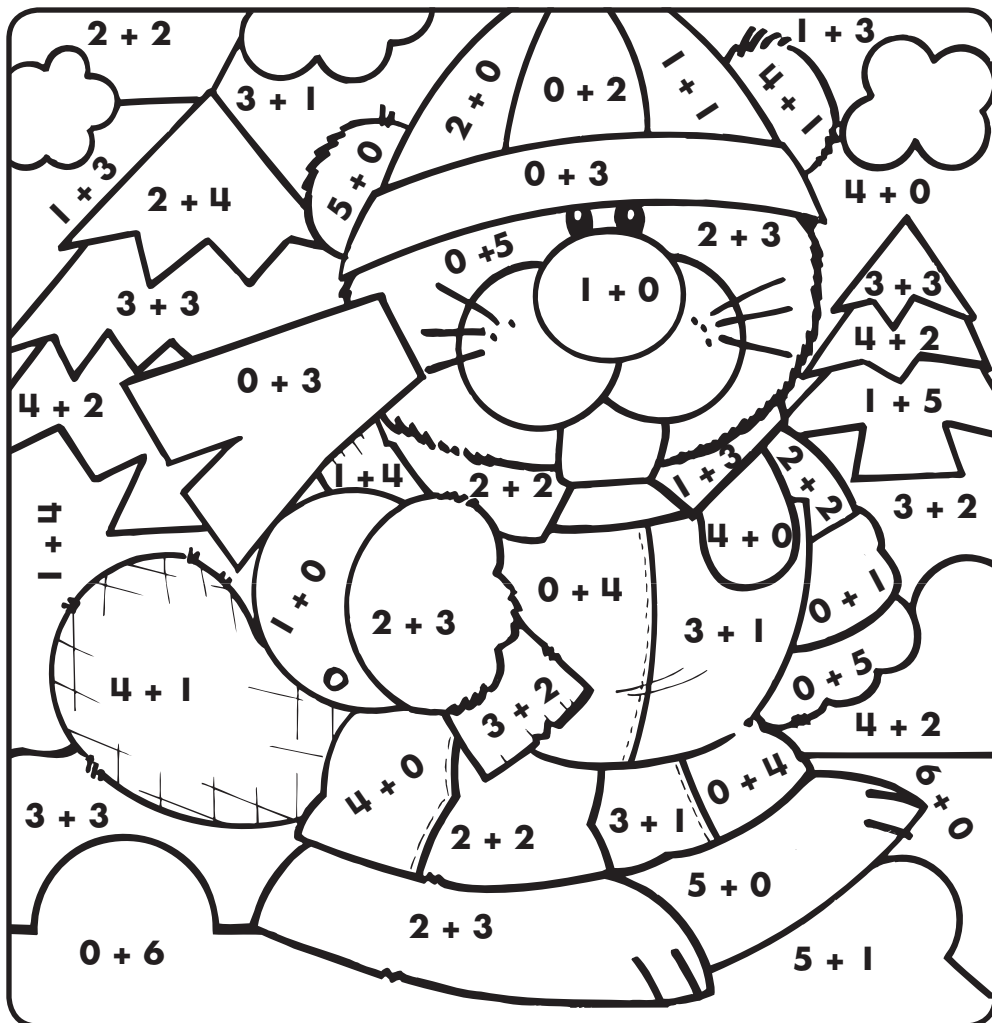
3 = black

5 = brown

2 = yellow

4 = blue

6 = green



Subtraction

Subtraction means taking away or subtracting one number from another. The symbol used for subtraction is called a **minus sign** (-). It means to subtract the second number from the first.

Directions: Solve the number problem under each picture. Write how much fruit is left. The first one is done for you.



$$5 - 2 = \underline{3}$$



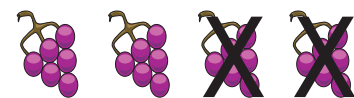
$$7 - 3 = \underline{\quad}$$



$$3 - 2 = \underline{\quad}$$



$$6 - 1 = \underline{\quad}$$



$$4 - 2 = \underline{\quad}$$

Subtraction: Pond Problems

Directions: Complete the subtraction sentences.



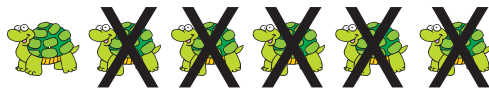
$$4 - 4 = \underline{\quad}$$



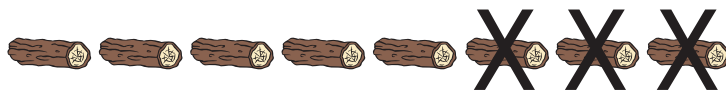
$$10 - 2 = \underline{\quad}$$



$$7 - 3 = \underline{\quad}$$



$$6 - 5 = \underline{\quad}$$



$$8 - 3 = \underline{\quad}$$



$$5 - 2 = \underline{\quad}$$

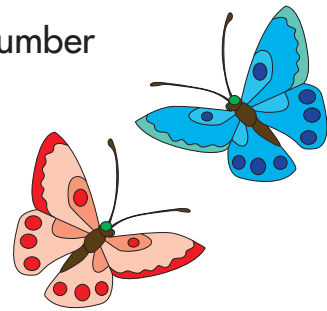
Butterfly Scramble

Emma wants to study butterflies in her science lab. But they keep flying away! Help catch the butterflies.

Directions: Circle the key word **left**. Write a number sentence to solve each subtraction problem.

Emma put 6 butterflies in her jar. But 2 flew out. How many butterflies are left in the jar?

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$



There were 10 butterflies in a tree. Then, 9 flew into a bush. How many butterflies were left in the tree?

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

Max saw 15 butterflies. He caught 8 of them. How many butterflies does Max have left to catch?

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

Directions: Draw a picture of Max and Emma chasing the butterflies.

Max's Subtraction

Max loves subtraction! Help Emma solve the math problems he wrote for her. Then, create your own subtraction problem for a friend.

Directions: Subtract to find the difference.

$$\begin{array}{r} 10 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ -5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ -0 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ -2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ -2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -7 \\ \hline \end{array}$$

Directions: Create your own problem.
Give it to a friend to solve.

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$



Subtraction Problem Solving


Directions: Solve each problem. Show your work. The first one is done for you.

There are 7 .

4  swim away.

How many are left? 3

$$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$$

Brian wants 10 .


He has 3 .

What is the difference?

Marla has 8 .

She gives 4  away.

What is $8 - 4$?

There are 7 .

2  pop.

How many are left?

Subtraction: Color Code

Directions: Solve the subtraction problems. Use the code to color the picture.

Color Code:

0 = green

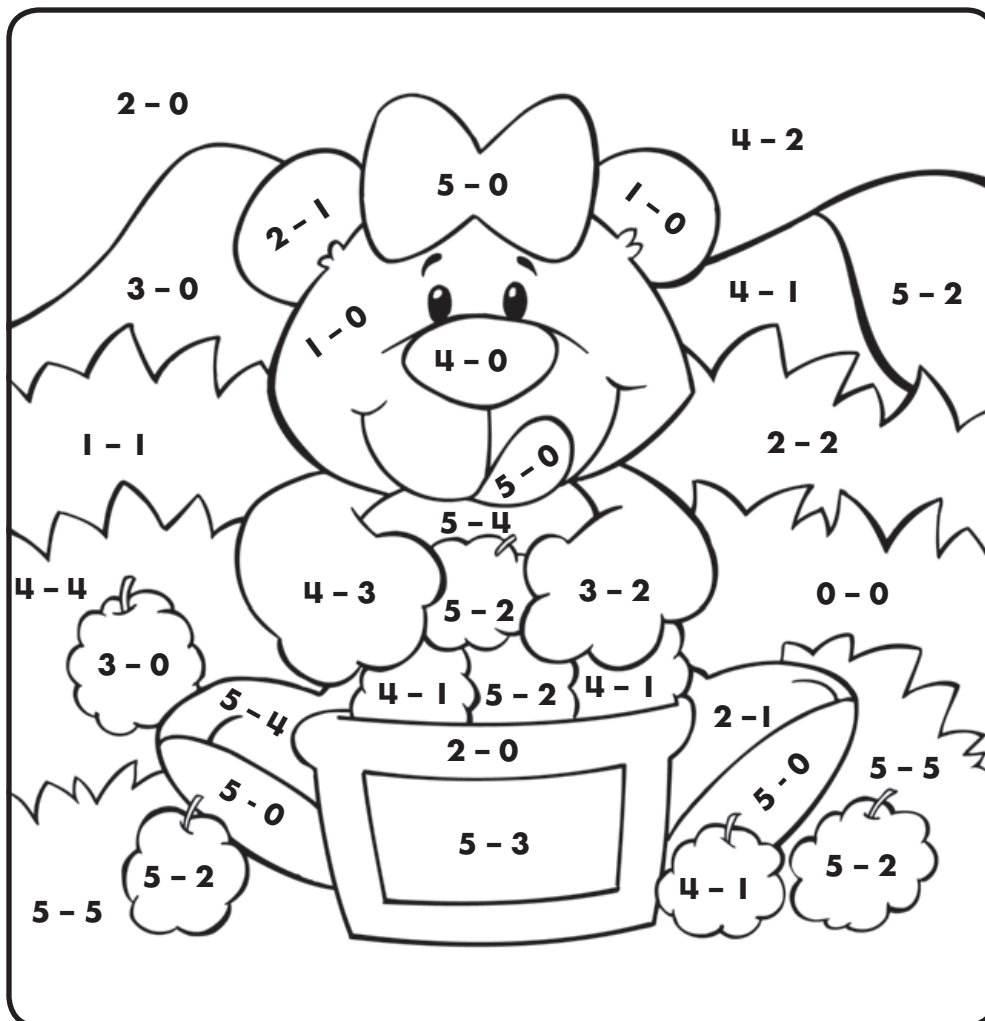
2 = blue

4 = black

1 = brown

3 = purple

5 = pink



Addition and Subtraction: Crack the Code

Max has a joke for you! Solve the math problems to decode the answer.

Directions: Add or subtract the problems. Then, use your answer and the key to write the correct letter on the line above the problem. The first one is done for you.

What is an alien's favorite sweet treat?

M	7	12	10	5	8	9	-
+4	+5	-6	-7	+3	+4	-5	
9							

15	14	2	11	14	4	10	!
-6	-2	+3	-6	-7	+6	-9	




Key:

M	A	L	S	W
9	12	5	1	10
N	R	I	T	O
4	6	8	3	7





Addition and Subtraction: Zoo Problems




Directions: Circle the key words **in all** or **left** and write + or - in the circles. Then, solve the problems.

Kristin counted 3 large  and 5 small  .
How many  are there in all?




$$3 \bigcirc 5 = \underline{\quad}$$

Cade wants a picture of 9  but 5 went underwater.
How many  are left?

$$9 \bigcirc 5 = \underline{\quad}$$

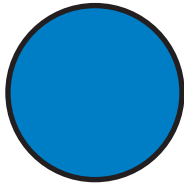
The petting zoo has 4  . 2  are sleeping.
How many  are left to pet?

$$4 \bigcirc 2 = \underline{\quad}$$

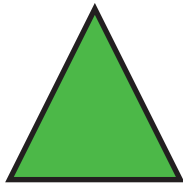
One zoo has 6  . Another zoo has 5  .
How many  in all?

$$6 \bigcirc 5 = \underline{\quad}$$

Shapes and Colors



circle



triangle

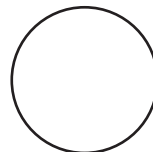
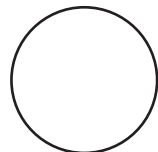
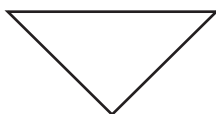
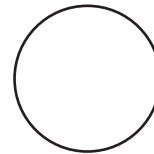
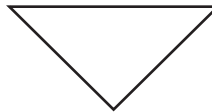
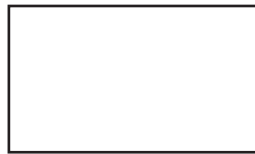
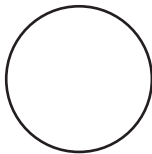


square



rectangle

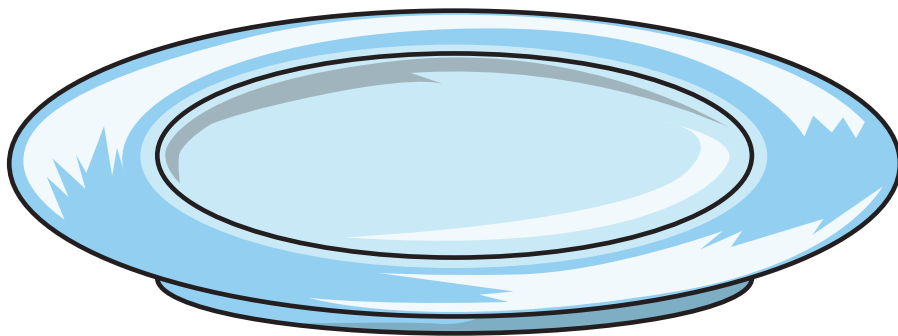
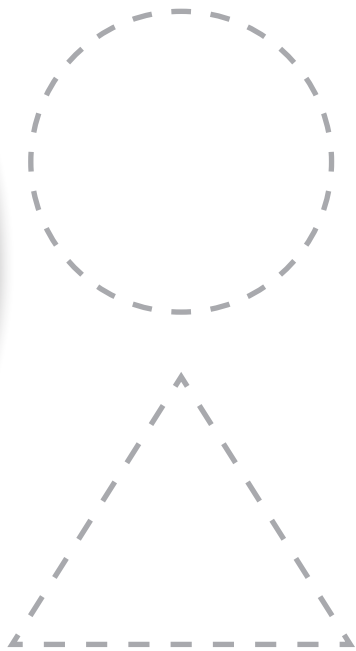
Directions: Color the circles **blue**. Color the triangles **green**. Color the squares **purple**. Color the rectangles **yellow**.



Shape Chef

Let's cook using your favorite shapes!

Directions: Practice tracing and drawing triangles and circles. Then, draw one triangle and one circle on the plate. Turn the shapes into foods!



Classifying: Space Shapes

Directions: Look at the shapes. Use the code to color the picture.

Color Code:



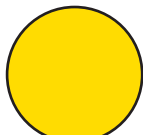
black



red



orange



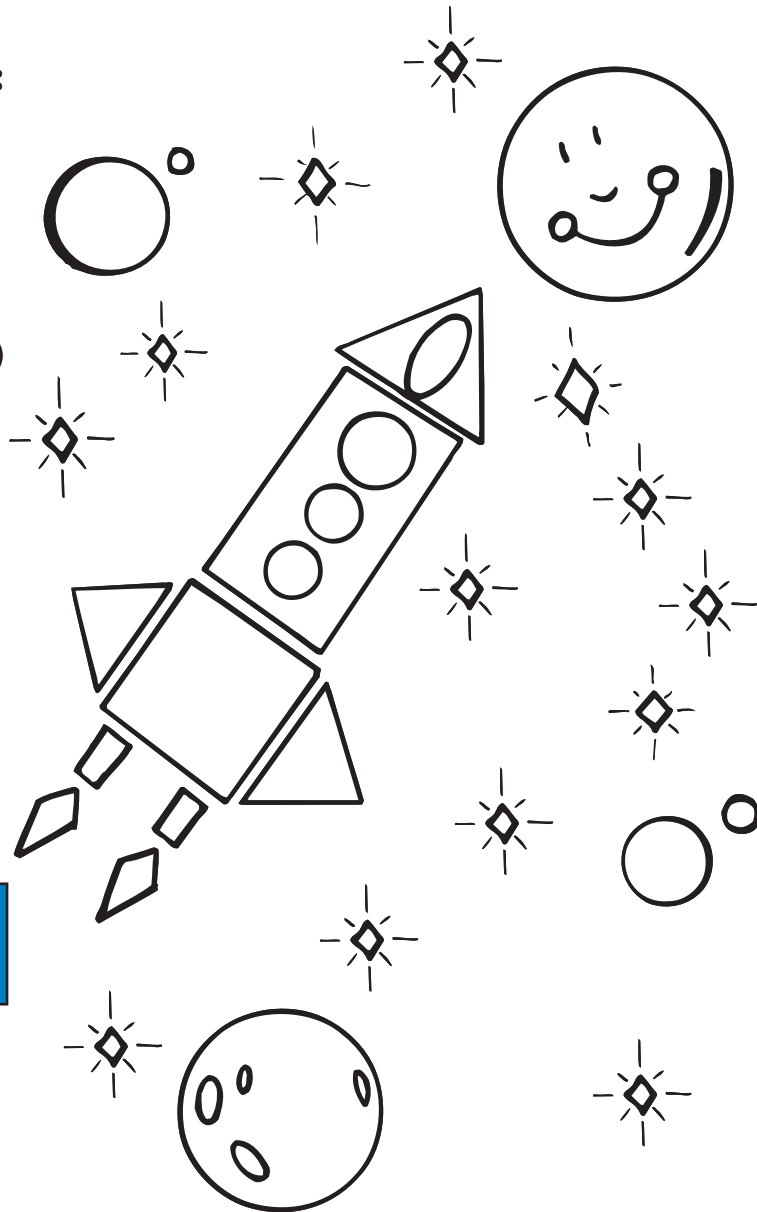
yellow



blue

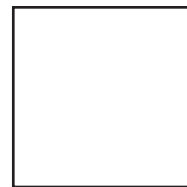
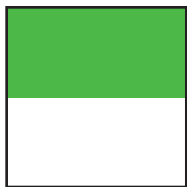
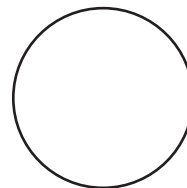
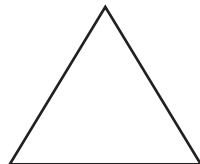
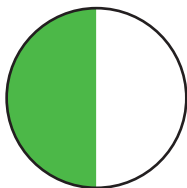
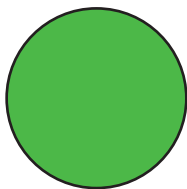


green



Classifying: Shapes

Directions: Look at the shapes. Answer the questions.



How many all **white** shapes? _____

How many all **green** shapes? _____

How many half **green** shapes? _____

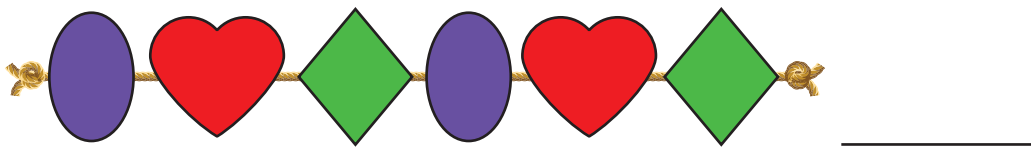
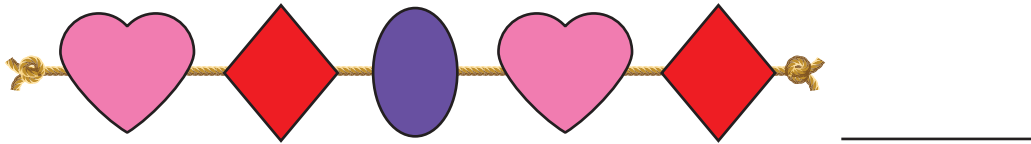
How many all **green** stars? _____

How many all **white** circles? _____

How many half **white** shapes? _____

Patterns

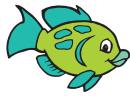
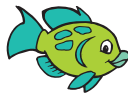
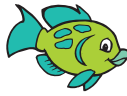
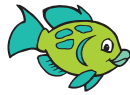
Directions: Draw what comes next in each pattern. Then, create your own pattern.



Pet Patterns

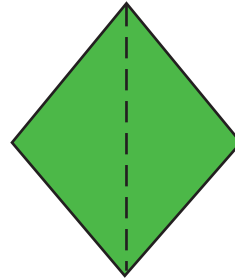
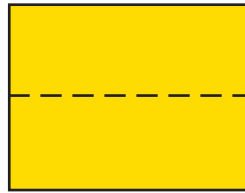
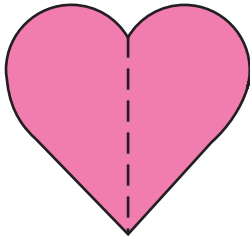
Max and Emma are creating patterns with their pets. But the patterns are out of order! Can you help?

Directions: Cut out the pets at the bottom of the page. Glue the pictures to continue the pattern in each row.

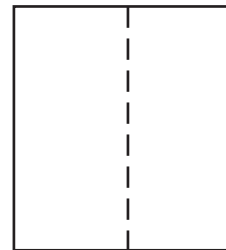
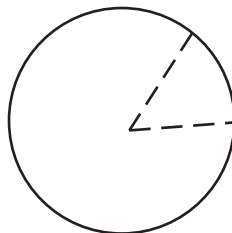
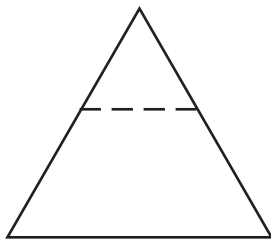
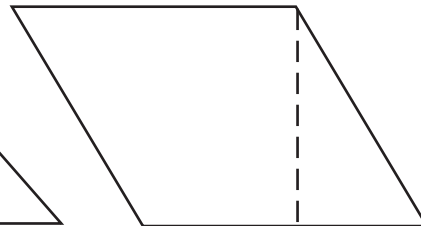
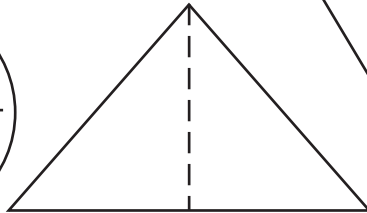
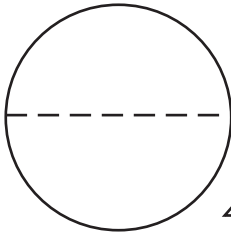
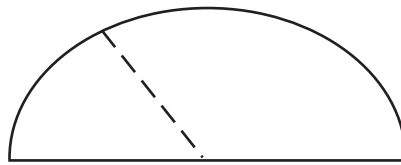
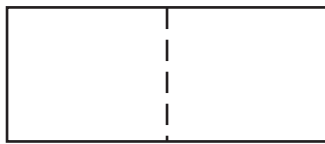


Fractions

How many equal parts? _____

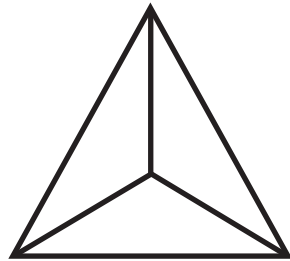
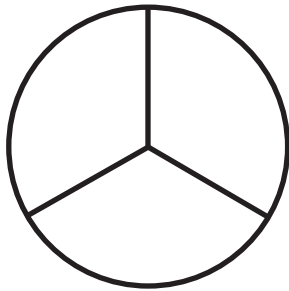


Directions: Color the shapes with two equal parts.

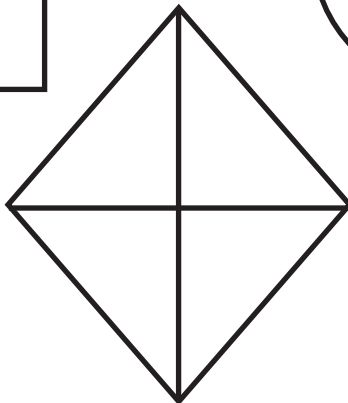
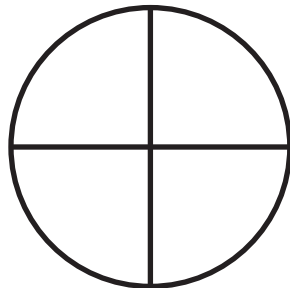
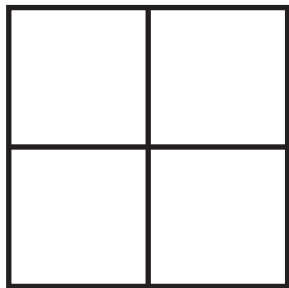


Fractions: Thirds and Fourths

Directions: Each object has three equal parts. Color one part.



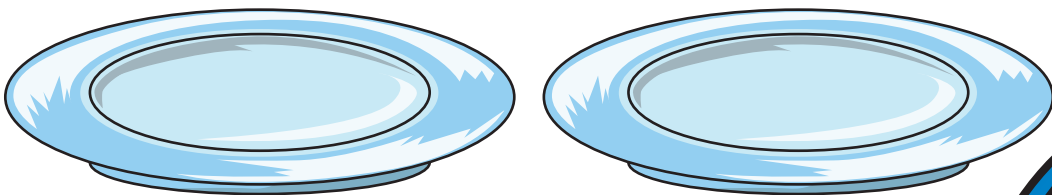
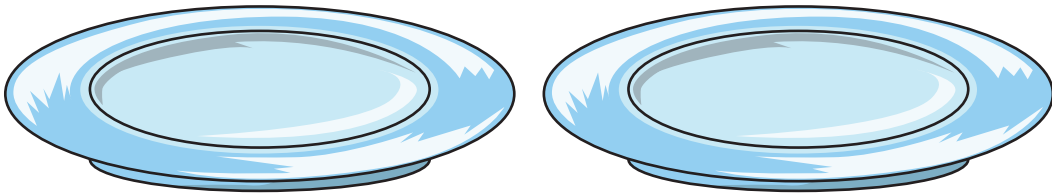
Directions: Each object has four equal parts. Color one part.



Cupcake Craze!

Emma wants to share eight cupcakes with four friends. If she divides the cupcakes equally, how many will everyone have?

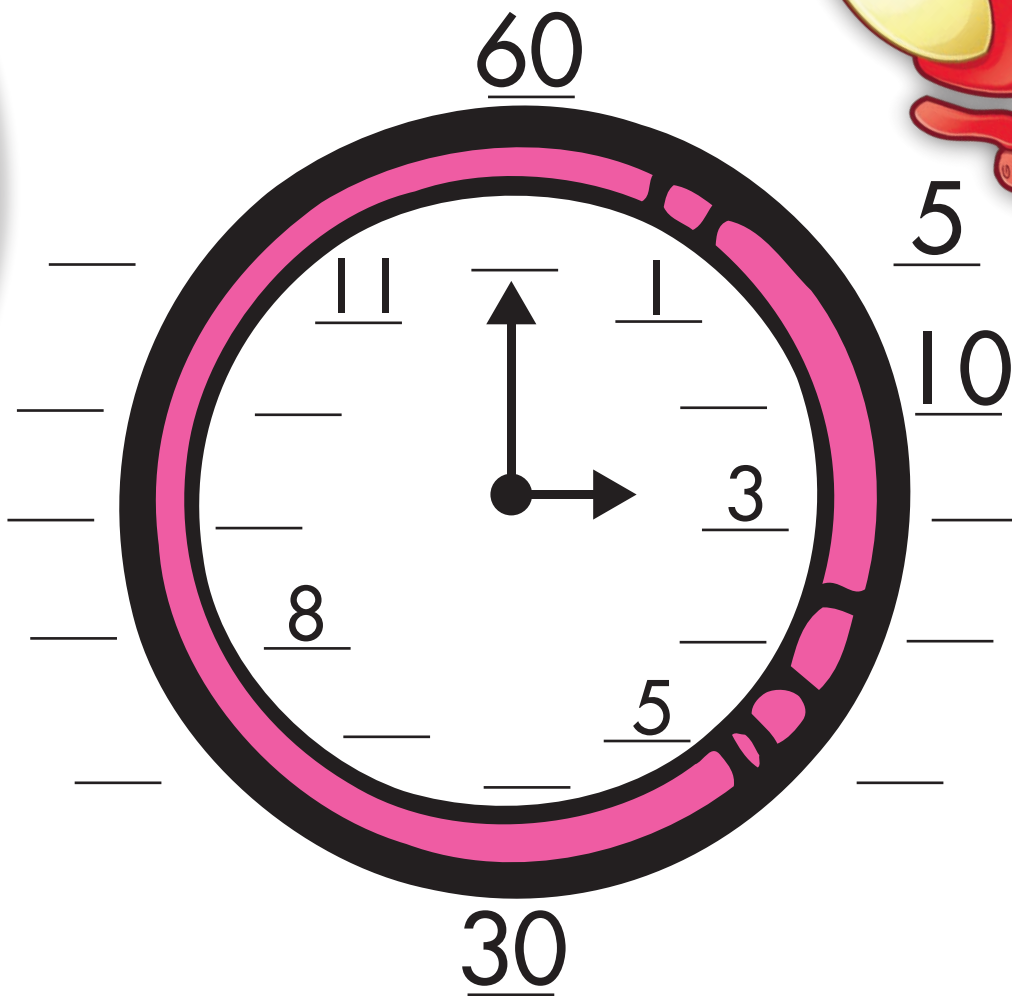
Directions: Draw the cupcakes on the plates to show how many each of Emma's friends gets.



Monster Clock Repair

Monsters are always late because their clocks are missing numbers! Fix the clocks for the monsters.

Directions: Fill in the numbers on the clock face. Count by fives around the clock.



Time

The short hand of the clock tells the hour. The long hand tells how many minutes after the hour. When the minute hand is on 12, it is the beginning of the hour.

Directions: Look at each clock. Write the time.



_____ o'clock



_____ o'clock



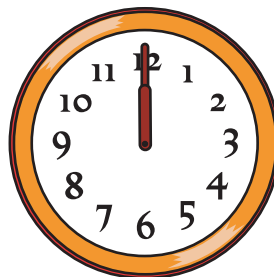
_____ o'clock



_____ o'clock



_____ o'clock



_____ o'clock

Time: Half Hour

The little hand of the clock tells the hour. The big hand tells how many minutes after the hour. When the minute hand is on the 6, it is on the half hour. A half hour is 30 minutes. It is written :30, such as 5:30.

Directions: Look at each clock. Write the time.



_____ : _____



_____ : _____



_____ : _____



_____ : _____



_____ : _____



_____ : _____

Your Schedule

Directions: Look at the time on the clocks. Write the time. Then, draw a picture of something you do at that time.



_____ : _____




_____ : _____

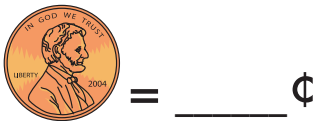


_____ : _____

Max's Pennies

Max is counting his pennies. A penny  is worth one cent. It is written **1¢**.

Directions: Count Max's pennies. How many cents?

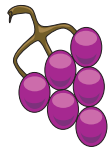


Shopping Spree

Directions: Write an addition sentence for each problem.
The first one is done for you.



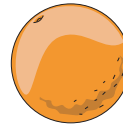
3¢



5¢



1¢



2¢



4¢



$$1 + 3 = 4 \text{ ¢}$$



$$\underline{\hspace{2cm}} \text{ ¢}$$



$$\underline{\hspace{2cm}} \text{ ¢}$$



$$\underline{\hspace{2cm}} \text{ ¢}$$



$$\underline{\hspace{2cm}} \text{ ¢}$$



$$\underline{\hspace{2cm}} \text{ ¢}$$




$$\underline{\hspace{2cm}} \text{ ¢}$$

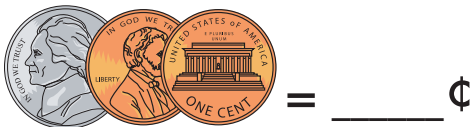


$$\underline{\hspace{2cm}} \text{ ¢}$$

Count the Change

Max and Emma want to buy ice cream. Help them count their change. A nickel  is worth 5 cents. It is written **5¢**.

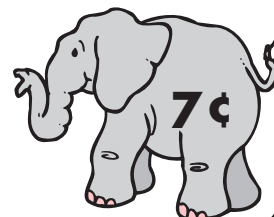
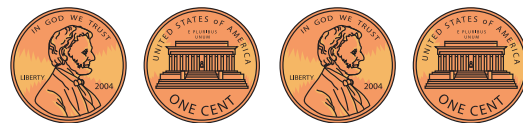
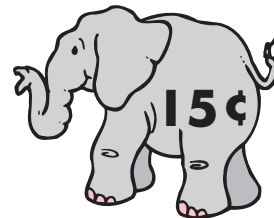
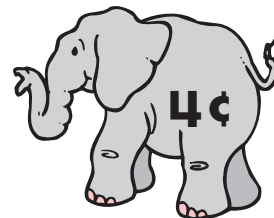
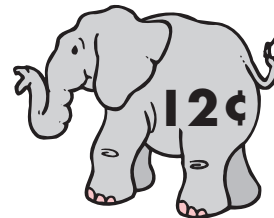
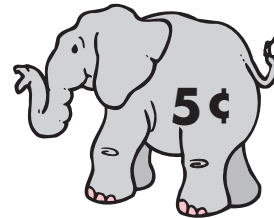
Directions: Count the money and write the answers.



Money: Dimes

A dime  is worth 10 cents. It is written **10¢**.

Directions: Elephants never forget how much change they have! Draw a line from the change to the elephant with the correct number.

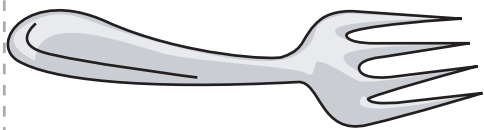


Measurement: Length and Height

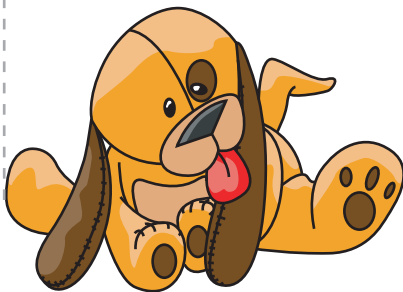
Directions: Use dimes to measure each object.



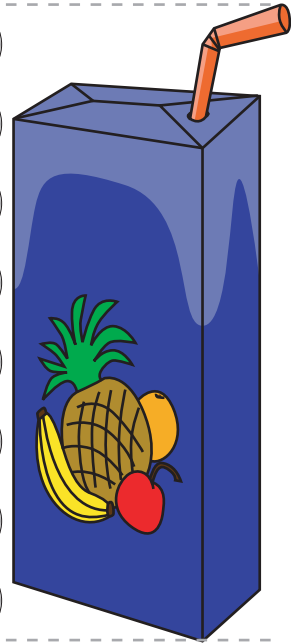
_____ dimes



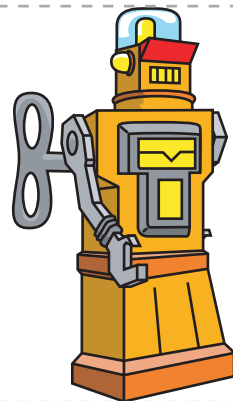
_____ dimes



_____ dimes



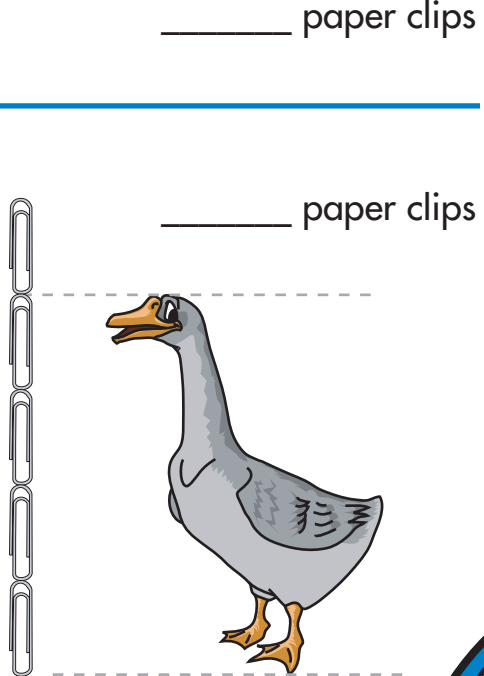
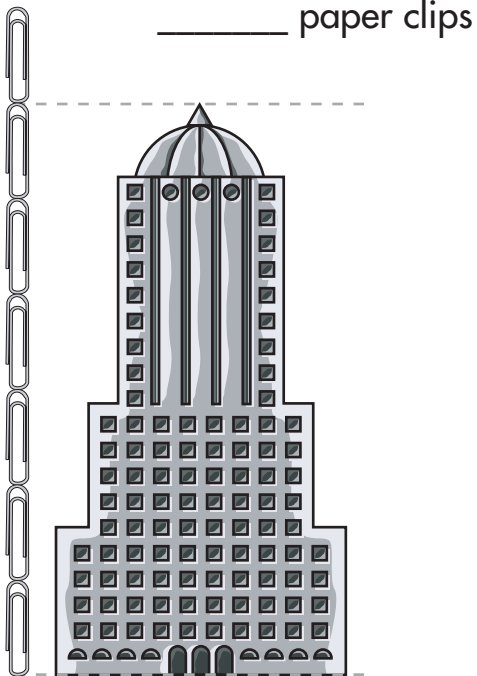
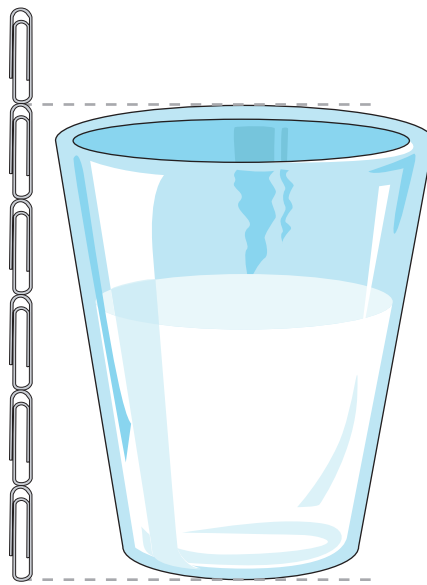
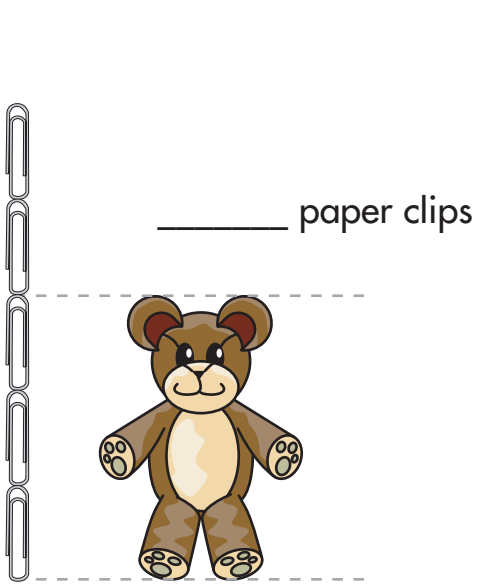
_____ dimes



_____ dimes

Measurement: Length and Height

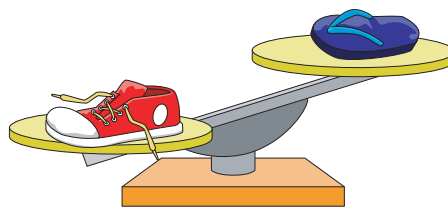
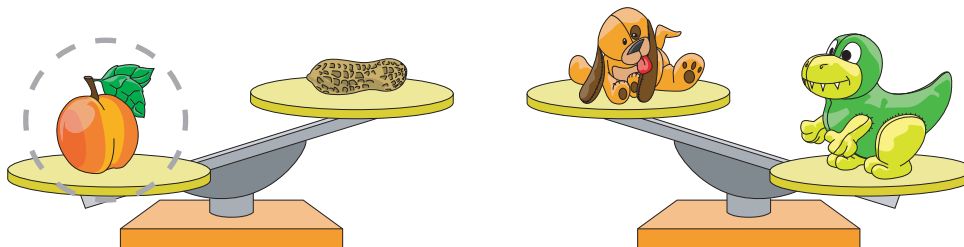
Directions: Use paper clips to measure each object.



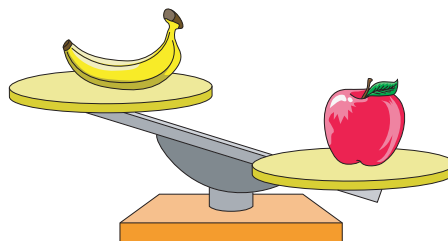
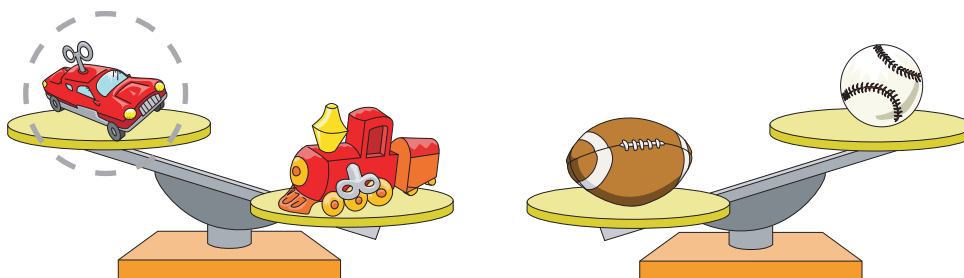
Measurement: Weight

Emma is experimenting with weight. She is weighing objects she found in her lab. Help her find the heavier and lighter objects.

Directions: Circle the heavier object. The first one is done for you.



Directions: Circle the lighter object. The first one is done for you.

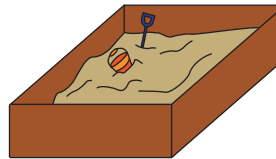
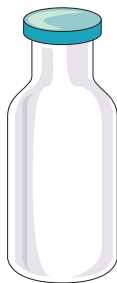


Measurement: Volume

Directions: Circle the object that holds more.



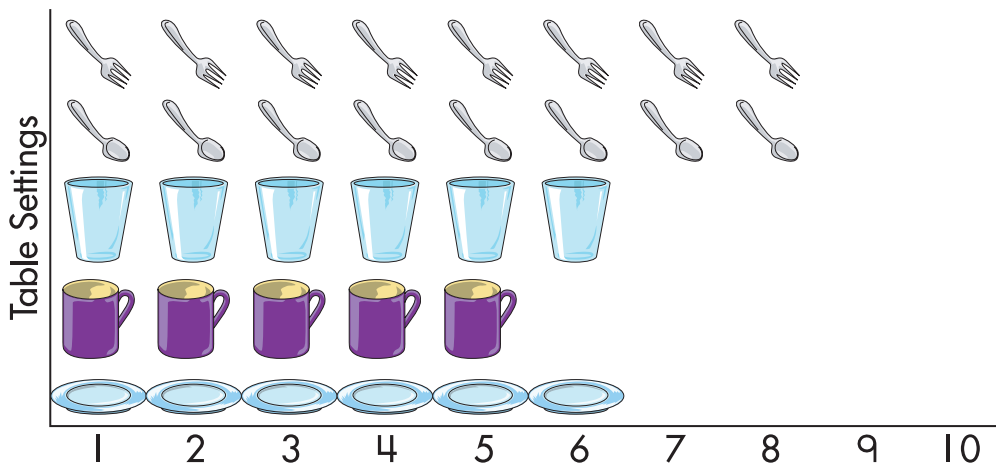
Directions: Draw an **X** on the object that holds less.



Directions: Draw something that holds more. Now, draw something that holds less.





Picture Graph




Directions: Time to set the table! Use the picture graph to answer the questions.



How many  in all? _____

How many more  than  ? _____

Circle the object that is greater than  .   

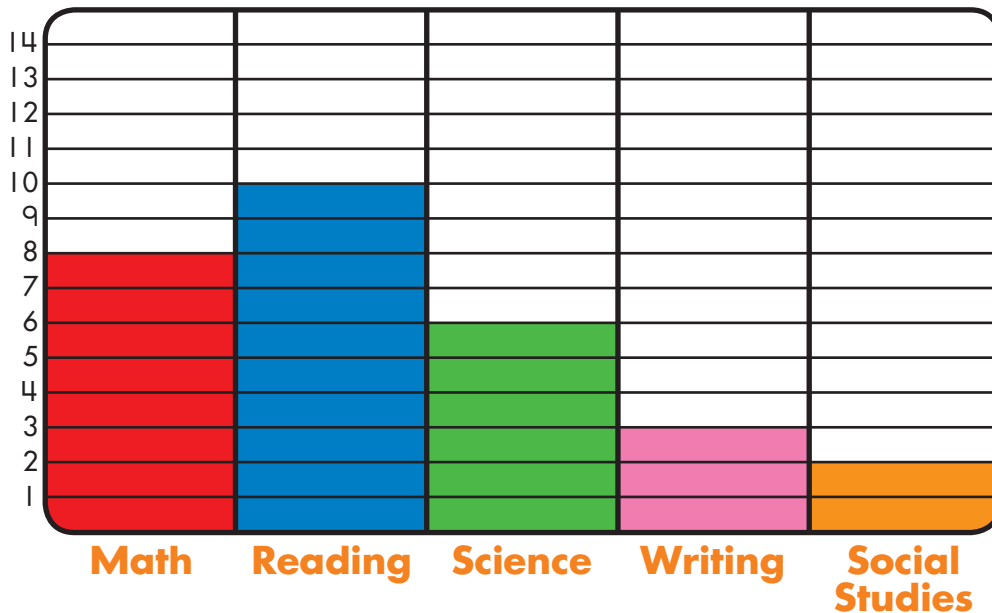
Circle the object that is less than  .  

Circle the object that is equal to  .   

Graphing: Bar Graph

Max asked his friends which subjects they like best. He put the information in a bar graph.

Directions: Look at the bar graph. Use it to answer the questions.



How many students enjoy writing the most? _____

How many students like reading and science the most? _____

Which subject is the most popular? **Reading** **Math**

How many more students like reading than math? _____

Which subject is the least popular? **Science** **Social Studies**

Graphing: Your Food Chart

Directions: Make a food chart for one day. Show what you ate. Draw an **X** for each food you ate.

Fruit 

Bread/Cereal 

Vegetable 

Other foods 

Meat/Eggs/Fish 

Breakfast	
Lunch	
Dinner	
Snacks	

Directions: Use your food chart to answer the questions.

How many of each did you eat?

Fruit _____

Bread/Cereal _____

Vegetable _____

Other foods _____

Meat/Eggs/Fish _____

What food did you eat the most? _____

What is your favorite food? _____

Max's Map



"Hi Emma," Max called. "Look what I found in my backyard!"

"That looks like a pirate's map!" Emma said. Both children were excited.

"Let's follow it and see where it goes," Max said.

"Maybe we will find treasure!" Emma said.

Directions: Color Max and Emma.



"There are a lot of steps to follow," Max said.

"Let's start at the tree," Emma said. She pointed to the big tree in Max's backyard.

"Good idea," Max said. He carefully held the map.

"First, we need to take 10 steps toward the swings."

Directions: Help Max and Emma read the map. Draw the path they should take. Follow the directions below.



Start at the tree. Walk to the swing set.

Next, walk past the doghouse.

Then, turn and walk around the **red** table.

Walk straight down to the gate.

"Looks like we need to go through the gate," Max said.

"The treasure must be in my backyard!" Emma exclaimed. They walked into Emma's yard.

"Uh oh," Max said. "We have to cross a river!" He pointed toward the little pool for Emma's baby brother.

"Just like real pirates!" Emma said.



Directions: Imagine Max and Emma are pirates. Draw them crossing a river.

"Look!" called Emma. "X marks the spot!" She pointed to a big X drawn in the sandbox.

"Let's start digging," Max said excitedly.

"I found a treasure box," Max said. "And it has my name on it!"

"I wonder what is inside?" Emma asked with a smile.



Directions: What do you think Max's treasure is? Draw it in the treasure box.



"Did you like your pirate's map Max?"
asked Emma.

"Yeah! That was fun," Max said.

"Good, maybe I will make you another one,"
Emma said.

"You made the map?" Max laughed.

"I want to make one for you first!"

Directions: Review the story. Write your
answers on the lines.

Check out
pages 40 and 41
in the Craft Zone if
you want to make
a treasure map of
your own!

Whose backyard does the map start in? **Max's**

Emma's

What do Max and Emma pretend to be when they cross the

pool? _____

Who made the treasure map? _____

Circle what happened first. **digging in the sand**

walk past the doghouse

Emma Enters the Science Fair



"Hi Max," Emma said. She sat next to him on the bus. "Look what I got at school today." She gave him a paper.

"There is a science fair next week?" Max asked. "That sounds cool! Are you entering?"

"Of course!" Emma said. Emma loved science. She always wore her lab coat, except when she slept.



Directions: Look at the science fair flyer. Some words are missing. Circle the correctly spelled word.



SCIENCE FAIR



_____ May 18, 2012 **Fryday** Friday



Weston Elementary School

5 P.M.



First _____ is a new bike! **prize** prize



Science is _____! **fan** fun

"What are you going to make?" Max asked.

"A volcano," Emma said. "We learned about them last week."

"That sounds fun!" Max said.

"Will you help me paint it?" Emma asked. Max was a great artist.

"Sure," Max said. "Let's get started."

Directions: Help Max and Emma find the supplies they need. Look at the words in the box. Find and circle them in the picture.

paint
glue

empty bottle
newspaper

bowl



Max and Emma worked hard on the volcano. Emma built it. Max painted it.

"This looks good," Emma said. "It needs to dry for a day. Then, I can add the big surprise!"

"What surprise?" Max wanted to know.

"My mom is going to help me make it erupt," Emma said. "I get to make a mixture in my lab!"

Directions: Help Max and Emma finish the volcano. Color it.



The day of the science fair quickly arrived. Emma was nervous, but excited. Max came, too.

Emma added the special mixture to her volcano. It erupted!

"I'm glad that worked," Emma said. "I will find out if I won tomorrow."

"Good luck, Emma!" Max said.

Directions: Finish the story. Did Emma win? Draw your ending.

Directions: Review the story. Write your answers on the lines.

What is Emma's favorite school subject?

art

science

Want to make a volcano at home? Turn to pages 155-158 in the Science Zone to learn how!

What day of the week is the science fair on?

What is your favorite school subject?

Name two things you need to make a volcano.

The Secret Code



It was a rainy day. Max and Emma could not play outside. Emma was at home in her science lab.

"Let's see how much it has rained," Emma said. "I bet my rain tracker is almost full!"

The phone rang. "Emma! Max is on the phone," her mom called.

Directions: Fill up the rain tracker. There are 3 inches of rain. Use the ruler to color 3 inches of rain.



"Hi Max," Emma said.

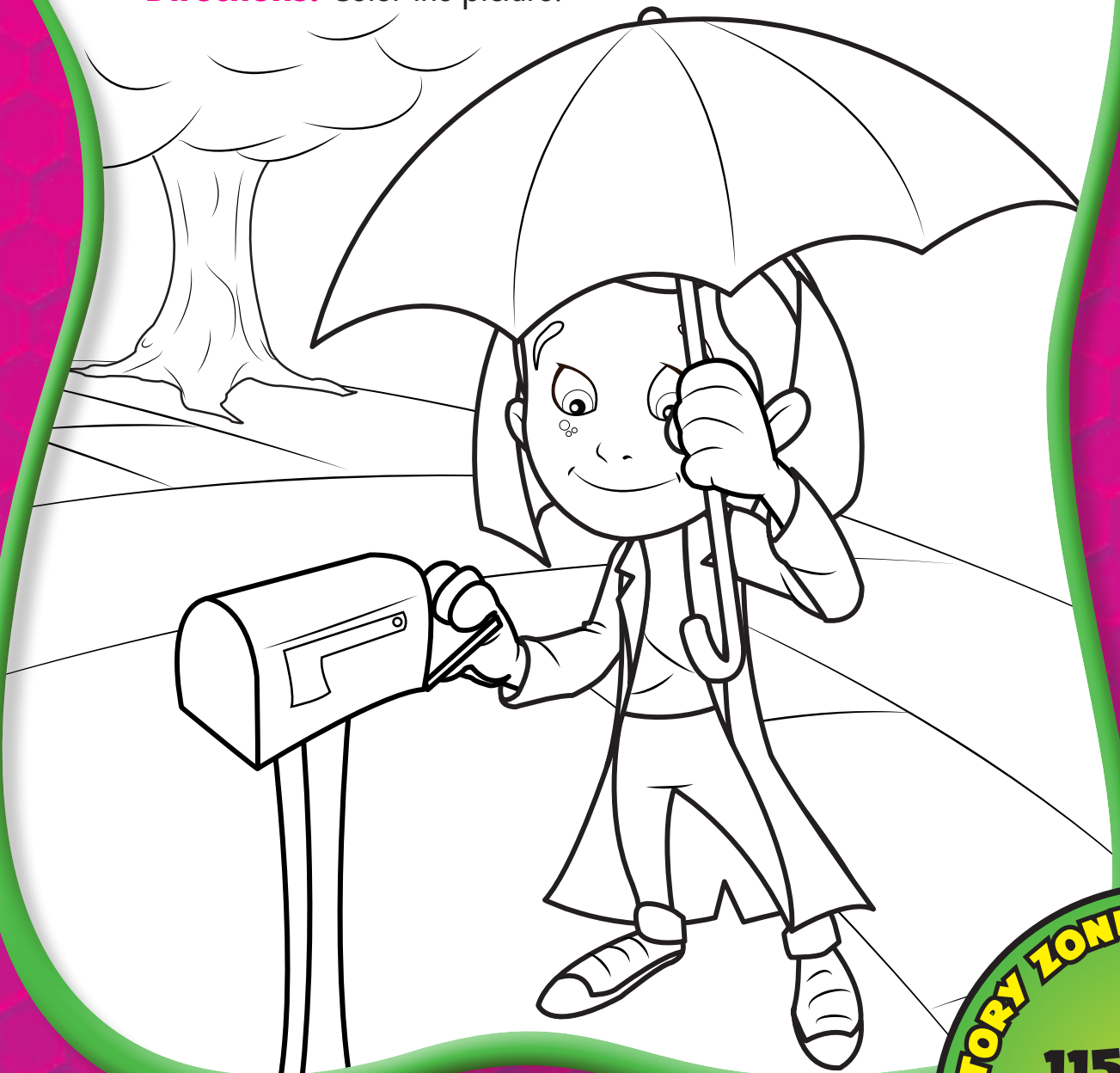
"Hi Emma," Max said. "I put something secret in your mailbox. Go check it."

"What is it?" Emma asked.

"You will see," Max said. "Once you solve it, put it in my mailbox."

"Okay, I will check now!" Emma said. They hung up the phone. Emma grabbed an umbrella and went outside.

Directions: Color the picture.



Back inside, Emma opened the letter. It was written in a secret code. "Cool!" Emma said. "Max made his own code." She looked at the key. "I see, each symbol stands for a letter," she said.

"I need to check my rain tracker first," Emma said. But it had stopped raining outside.

"I have the perfect message for Max!" Emma said as she started writing.

Directions: What will Emma do after she writes the code? Draw what happens next below.



"I wish we could play outside," Max sighed.
 He worked more on his marble painting. The phone rang.
 "Hello?" Max said.
 "Go check your mailbox!" Emma said.
 "I'll go right now," Max said. He was so excited he did not even notice the rain had stopped.

Directions: Help Max solve the code from Emma. Use the key to unlock the message.

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z

,

!

Directions: Review the story. Write your answers on the lines.

Decode jokes and riddles in the Game Zone using Max and Emma's code! Check out page 160.

What was Emma tracking?

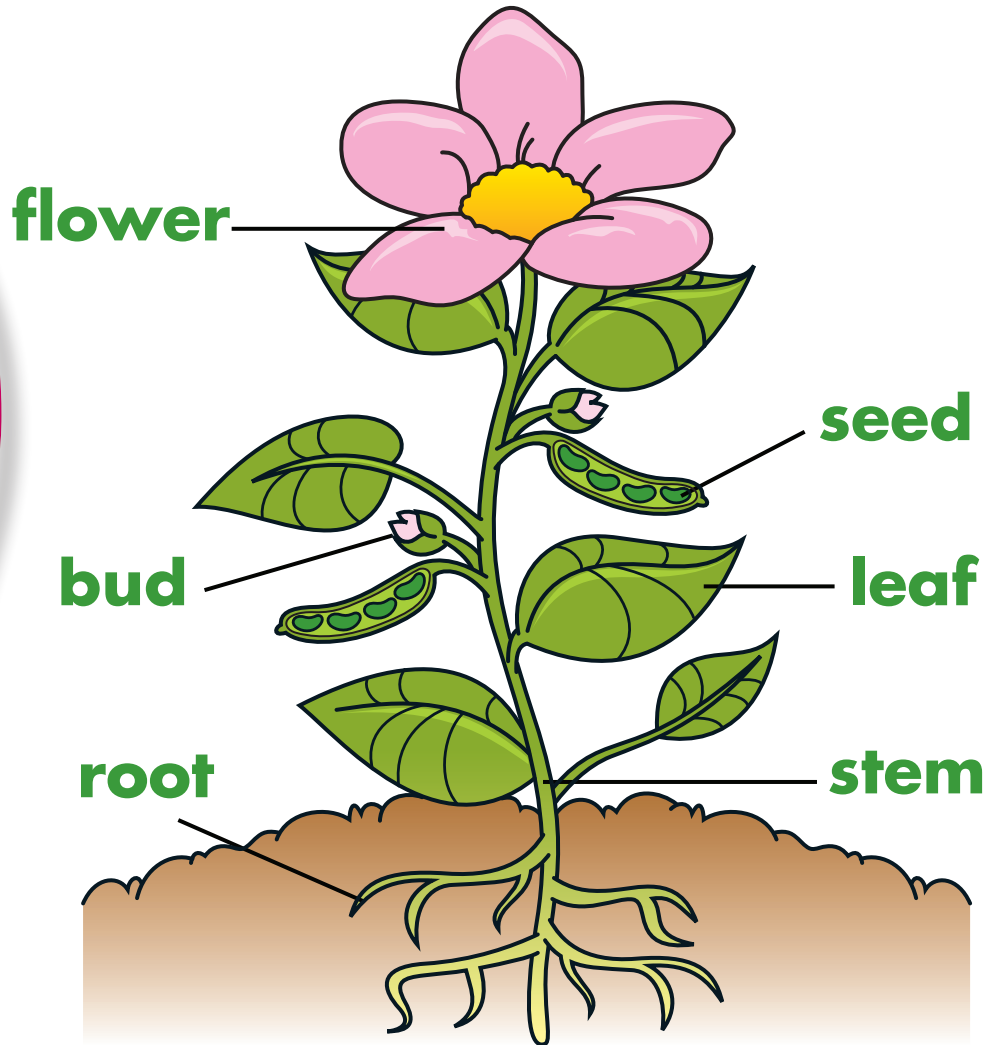
Where did Max put the code for Emma?

What do you think Emma and Max will do next?

go to school play outside

Write your name in the secret code.

Science Zone

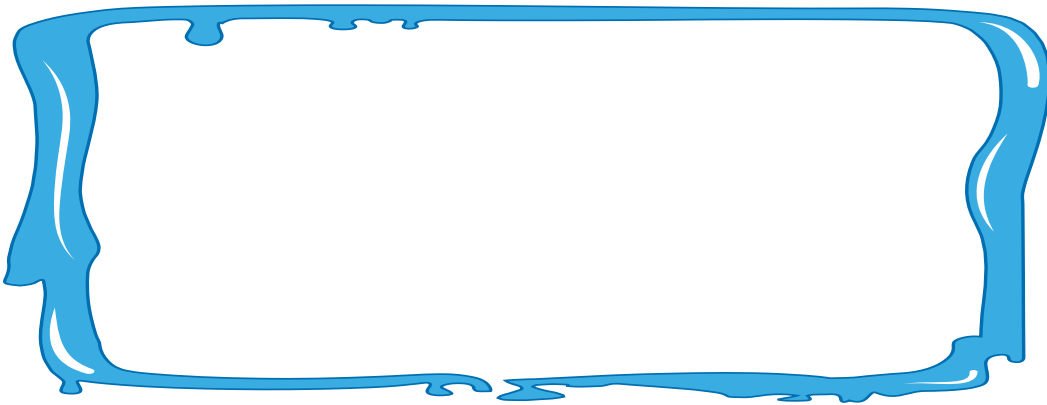


Liquids and Solids

Matter is everywhere. Everything on Earth is made of matter. There are three types of matter: liquids, solids, and gases.

Directions: Read about liquids. Then, draw.

A **liquid** does not have a shape. Water is a liquid. Can you think of another liquid? Draw it.



Directions: Read about solids. Then, draw.

A **solid** has a shape. Many things are solids, such as tables, apples, and you! Draw a solid.

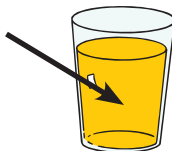
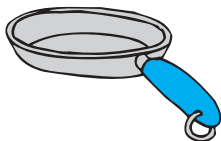


Mixed Up Matter!

Directions: Help sort the liquids and solids. Cut out the pictures below. Glue each picture in the correct box.

Liquids

Solids

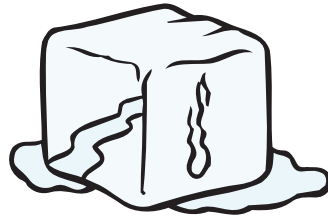


Changing Matter

Matter can change forms. Sometimes, a liquid becomes a solid, and a solid becomes a liquid. Try the simple experiment below.

What you'll need:

- Water
- Ice tray
- Freezer



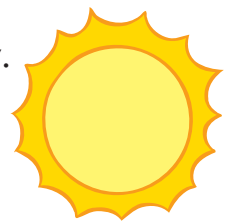
What to do:

1. Pour water into an ice tray. Touch the liquid.
2. Put the water in a freezer for two hours.
3. Take it out. Touch it. What does it feel like now?

The liquid became a _____.

Now...

1. Take the ice cubes outside on a warm, sunny day.
2. Leave them in the sun for two hours.
3. Now, touch the ice cubes.



The solid became a _____.

Gases

Have you ever poured cold water on something very hot? What happens? Steam rises off the object. The steam is a **gas**. Gas has no shape. Gases can take many shapes.

Directions: Solve the gas riddle below. Use the key to write the question and answer.

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

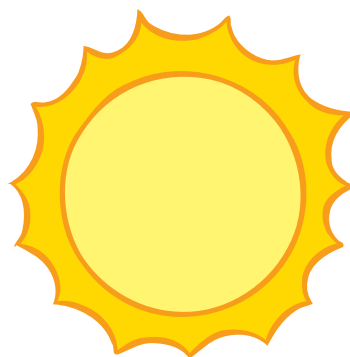
9 19 8 9 14 5 9 14 20 8 5

19 11 25 9 1 13 13 1 4 5

15 6 7 1 19 5 19

What am I?

20 8 5 19 21 14



Review: Matter

Help Max and Emma learn about matter. What solids, liquids, and gases can you name?

Directions: Draw a solid, liquid, and gas below.

Solid



Liquid

Gas

Emma's Lab

Welcome to Emma's laboratory. Emma is experimenting with mixtures of liquids and gases. She found one that is a real blast! You can create this safe and fun experiment, too.

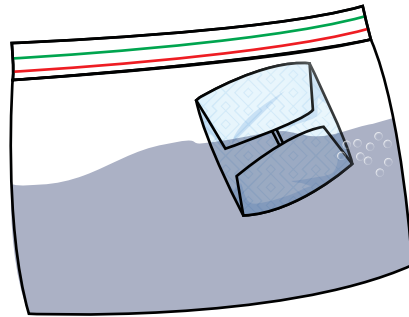
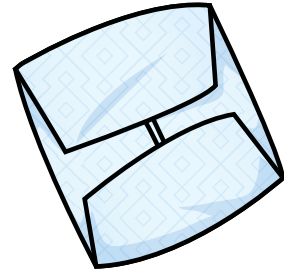
What you'll need:

- A sandwich bag (make sure there are no holes and it can seal completely)
- Paper towel
- $\frac{1}{2}$ cup white vinegar
- $1\frac{1}{2}$ tablespoons baking soda
- $\frac{1}{4}$ cup warm water
- Scissors
- A clear outdoor area
- An adult



What to do:

1. On a paper towel, draw a square that is about 5 inches on each side. Then, cut it out.
2. Measure the baking soda and spoon it onto the paper towel. Fold the corners inward so the powder is contained in a little pouch, as shown.
3. Mix the vinegar and warm water together.
4. Pour the vinegar mixture into the sandwich bag.
5. Go outside.
6. Quickly and carefully, drop the paper towel packet into the bag. Seal it shut right away.
7. Shake the bag a bit. Then, put it on the ground and stand back for a surprise!



What happened?

What did you learn?

The liquid vinegar and the solid baking soda created a gas. There was too much gas in the bag, so the bag burst to let it out!

Weather

Look outside. What is the weather like today? Practice observing the weather every day.

Directions: Draw your favorite weather. Write your favorite weather.

Weather Word Search

Directions: Look at the weather words in the box. Find them in the word search. Words can be up, down, across, or diagonal.

h t y n f q e h e k w r
u m l g w c l o u d o a
r e t i e v d t i v o i
r l o x g u s t t c h n
i w r r e h o h s o e s
c a n a v q t u j l l p
a f a z e b f n p d u n
n s d r n s c d i o i j
e n o l w n o e z n e t
n i t p b o s r e i g g
b s u n v w u n r t j b

sun	cloud	thunder	snow	tornado
hurricane	hot	rain	cold	lightning

Emma's Rain Tracker

Track the rain just like Emma! Follow the directions to track how much it rains for one week. Then, use the Observation Chart on the next page to record your measurements.

What you'll need:

- One 10-inch glass or plastic container
- A handful of marbles or pebbles
- One marker
- One ruler
- An adult



What to do:

1. Place a handful of marbles or pebbles in the glass container (to keep it weighted down when outside).
2. Ask an adult to help you pour water into the container until it is 1 inch deep.
3. Draw a line where the water is with a **black** marker.
4. Place the container outside on a flat surface (away from any trees).
5. Ask an adult to help you use a ruler to measure the rainfall in the container each day at the same time for one week. Remember, measure starting from the **black** line you drew.
6. Track your observations on the Observation Chart!

Read "Max and Emma's Secret Code" in the Story Zone. Emma has a rain tracker on page 114!

Observation Chart

Directions: Use the chart below to write how much rain you measured every day.

Day of the Week	Rain Measurement	Draw the Weather Today
Sunday		
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		

Weather: Clouds

There are three types of clouds: Cirrus, Cumulus, and Stratus. Each cloud is different. Read about the clouds below and follow the directions.

Cirrus clouds are high in the sky. They are white and feathery and contain ice crystals.

Directions: Paint white streaks below. Sprinkle glitter on the wet paint. The glitter represents the ice crystals.

Cumulus clouds are low in the sky. They are puffy and white, like cotton balls.

Directions: Glue different sized cotton balls below.

Stratus clouds are low in the sky. They are wide, often gray, and bring snow and rain.

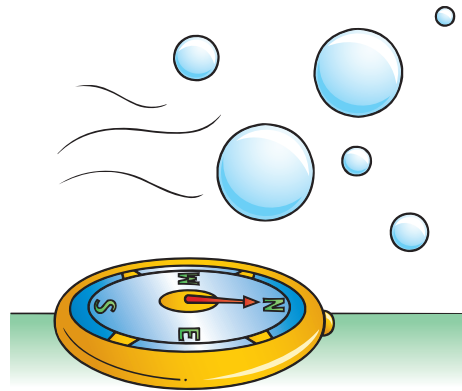
Directions: Glue dryer lint or gray flannel below.

Weather: Wind Direction

Use bubbles to find out which direction the wind is blowing. See page 50 for a quick and easy bubble recipe!

What you'll need:

- Bubble solution (pg. 50)
- Large plastic container
- Compass
- Bubble wand
- An adult



What to do:

1. Pour the bubble solution into a large plastic container.
2. Go outside with an adult.
3. Have an adult help you use a compass. Find north, south, east, and west.
4. Blow some bubbles with the bubble wand.
5. Watch to see which direction the wind blows the bubbles.

Directions: Circle the direction the bubbles went.

north south east west

Directions: Circle the direction the wind is blowing.

north south east west

Four Seasons

Directions: Draw a line to match each picture to the correct season. Fill in the missing letter in each season. Use the words in the box to help you.

spring

summer

winter

autumn



s _ _ ring



win _ _ er



sum _ _ er



au _ _ umn

Favorite Season

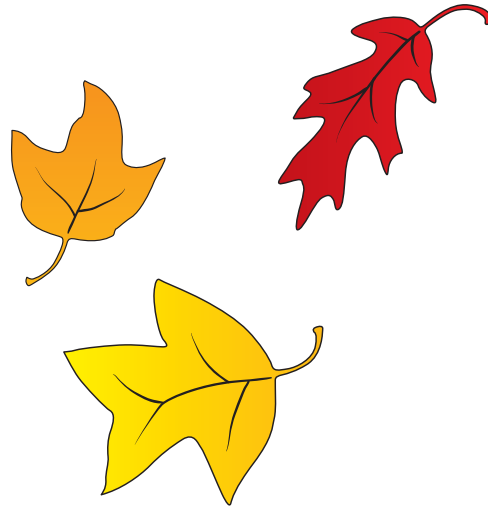
Directions: Draw your favorite season below. Draw yourself dressed for that season in the picture.

Leafy Collection

Create your own leaf collection. This is a fun way to learn about nature around your home. Follow the directions below. Then, use the chart on page 137 to study your leaves.

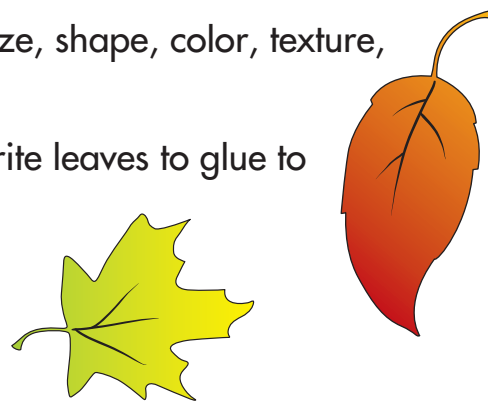
What you'll need:

- A plastic bag
- Glue
- Different types of trees and bushes
- An adult



What to do:

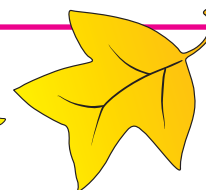
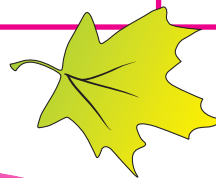
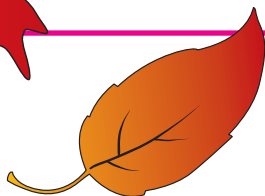
1. Ask an adult to take you for a walk around your neighborhood.
2. Carefully, collect many different types of leaves off of trees and bushes.
3. Place the leaves in a bag until you get home.
4. Once you are home, lay all the leaves out on the table.
5. You can sort the leaves by size, shape, color, texture, or any way you want.
6. Then, choose your four favorite leaves to glue to your observation chart.



Leafy Chart

Directions: Use the chart below to compare and contrast the leaves you found. Glue one leaf in each box. Then, fill in your observations about each leaf.

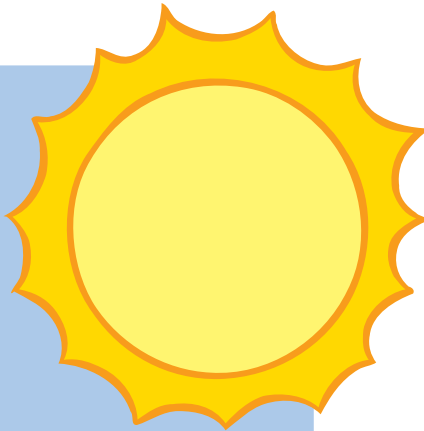
The Leaf	Color	Size



The Sun

Directions: Read about the Sun. Then, complete the crossword puzzle on page 139.

The Sun is a star. It is the center of our solar system. The planets travel around the Sun. The Sun is made up of gases. Hydrogen makes up most of the Sun, but it also contains a lot of helium.



The Sun makes its own light. The Sun shines and makes plants grow. Even if we cannot see the Sun through clouds, it is there!

The Sun also gives off heat. It keeps us warm. It is the nearest star to Earth. We could not live without the Sun.

Directions: Unscramble the words below. Then, fill in the blanks.

astr

asgse

mraw

The Sun is a_____.

The Sun is made of_____.

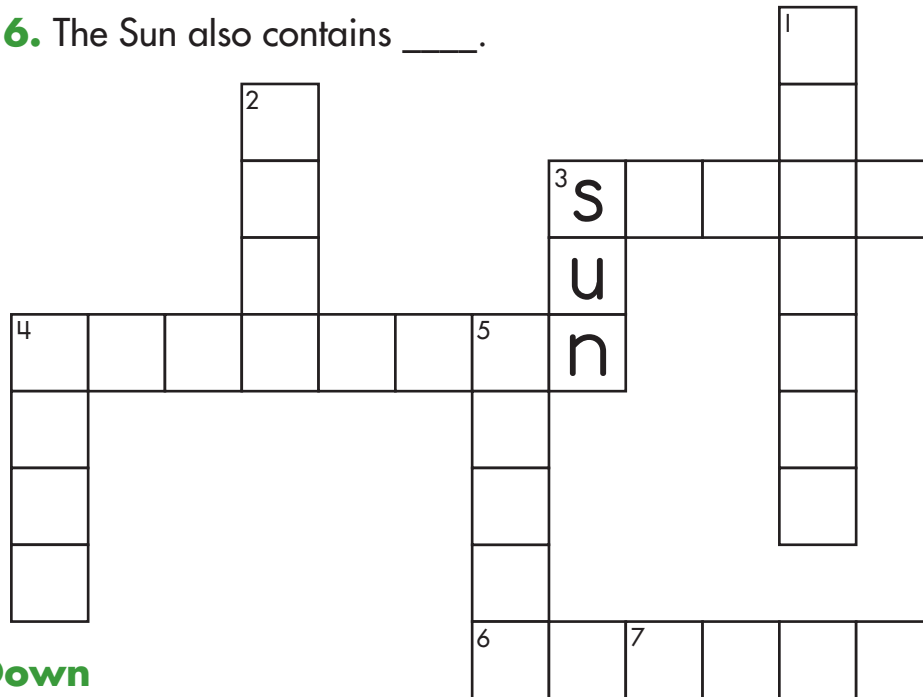
The Sun keeps us_____.

Sunny Crossword

Directions: Complete the puzzle. Use page 138 to help. One is done for you.

Across

3. The Sun is the center of the ____ system.
4. The Sun is mostly made of ____.
6. The Sun also contains ____.



Down

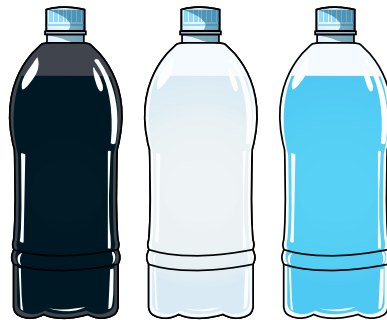
1. The ____ travel around the Sun.
2. The Sun is a ____.
3. We could not live without the ____.
4. The Sun gives off ____.
5. The Sun is the nearest star to ____.
7. The Sun makes its own ____.

Solar Energy

Emma is painting a toy car. The car needs the Sun's energy to run. What color of paint should Emma use? Help Emma with her experiment.

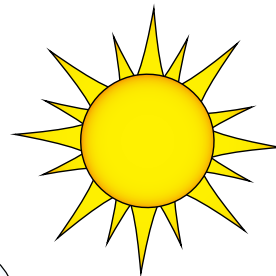
What you'll need:

- Three plastic bottles
- **Black** paint
- **White** paint
- Thermometer (optional)
- A sunny day



What to do:

1. Paint one bottle **black** and one bottle **white**. Leave one bottle unpainted.
2. Fill each bottle with water.
3. Set all three bottles outside in sunlight.
4. Leave them in the sun for 30 minutes.



5. Then, measure the temperature of each bottle by pouring water from each on your skin. Or, you can use a thermometer to measure the water's temperature.
6. Record your observations.

Circle the bottle that had the warmest water.



Black absorbs the most energy from the sun. If Emma's toy car needs sunlight to run, what color should it be?

Directions: Draw the car below. Color it the correct color.



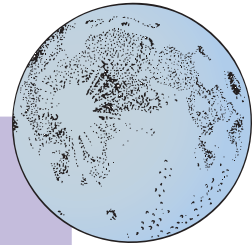
The Moon

Max is pretending he is going to the moon! First, he reads about three important surfaces of the moon.

Directions: Read about the moon with Max.

Earth has one moon. You can see the moon in the sky. The moon travels around Earth. It is closer to Earth than the Sun or planets. But the moon is much smaller than Earth.

The surface of the moon has many deep holes called **craters**. It has flat areas called **maria** and rocky mountain areas called **highlands**. The moon has no air, water, or life.



Directions: Draw the surface of the moon. Then, draw Max on the moon!

Moon Code

Max is pretending to fly through the solar system. He wants to visit more moons.

Directions: Use the code to discover the names of some moons in our solar system.

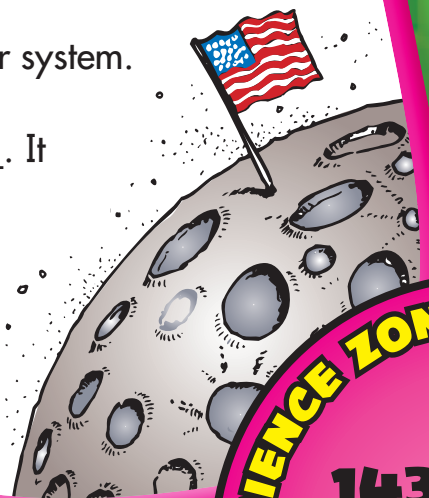
$\frac{A}{1}$	$\frac{B}{2}$	$\frac{C}{3}$	$\frac{D}{4}$	$\frac{E}{5}$	$\frac{F}{6}$	$\frac{G}{7}$	$\frac{H}{8}$	$\frac{I}{9}$	$\frac{J}{10}$	$\frac{K}{11}$	$\frac{L}{12}$	$\frac{M}{13}$
$\frac{N}{14}$	$\frac{O}{15}$	$\frac{P}{16}$	$\frac{Q}{17}$	$\frac{R}{18}$	$\frac{S}{19}$	$\frac{T}{20}$	$\frac{U}{21}$	$\frac{V}{22}$	$\frac{W}{23}$	$\frac{X}{24}$	$\frac{Y}{25}$	$\frac{Z}{26}$

First, he sees Jupiter's moon named $\frac{\quad}{9} \frac{\quad}{15}$. It has at least eight active volcanoes.

$\frac{\quad}{16} \frac{\quad}{8} \frac{\quad}{15} \frac{\quad}{2} \frac{\quad}{15} \frac{\quad}{19}$ travels around Mars in $7\frac{1}{2}$ hours. No other moon travels so fast!

Next, he goes to the largest moon in the solar system.

It is named $\frac{\quad}{7} \frac{\quad}{1} \frac{\quad}{14} \frac{\quad}{25} \frac{\quad}{13} \frac{\quad}{5} \frac{\quad}{4} \frac{\quad}{5}$. It orbits Jupiter.



Earth

Earth is the only planet that has plants, animals, and human beings living on it. Most of the planet is covered with water. The rest is land.

Directions: Color the water **blue**. Color the land **green**.



Earth

Directions: Read about Earth. Some words are missing. Use the words from the word bank to complete the paragraph.

Sun

closer

soil

Earth

The third planet from the _____ is our planet Earth. Earth is at the right distance from the Sun to have the liquid water necessary to support life. Mercury and Venus are too hot because they are _____ to the Sun. The other planets are too far from the Sun.

Earth has a lot of water. Most living things need water. Water helps to control Earth's weather and climate. Water also breaks rock into _____, which plants need to grow.

_____ is a special planet!

Edible Earth

Make a model of Earth's layers that is good enough to eat!

What you'll need:

- A bag of marshmallows
- Hazelnuts or hard candy
- Melted chocolate
- An adult

The **core** is the inner layer of Earth. The core is solid and very hot.

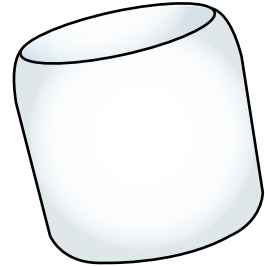
Surrounding the core is the **mantle**. The mantle is the largest layer. It separates the core from the crust.

The **crust** is the outer shell of Earth. It is the thinnest layer, but it is very hard. We live on the crust!

What to do:

1. Select one marshmallow. The marshmallow will represent the **mantle**.
2. Put a hazelnut or piece of hard candy into the center of the marshmallow.

What layer does the hazelnut represent?



3. Then, dip the marshmallow into melted chocolate. This represents Earth's **crust**.
4. Enjoy your snack!
5. Make more for your family and friends. Teach them about Earth's layers.



Directions: Draw the three layers of Earth below.

Parts of a Plant

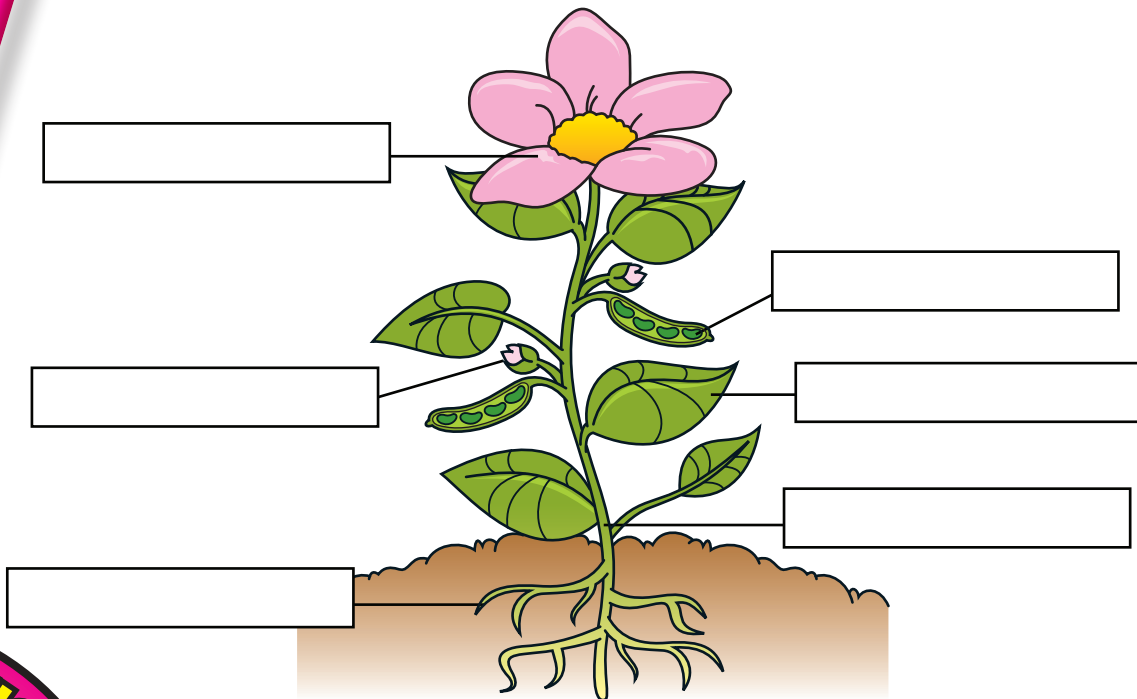
Directions: Read the passage. Label the parts of a plant. Use the word bank to help you.

All plants begin from **seeds**. The **roots** are in the ground and suck up water. The plant's **stem** is above the ground. **Leaves** grow off of the stem. Sometimes, a plant has a **flower** on top of the stem. **Buds** are small flowers that have not finished growing yet. Most plants need water and sunlight to survive.

bud
leaf

flower
seed

stem
root



Grow a Tree

Learn how trees grow. You will love completing this hands-on experiment!

What you'll need:

- Seeds from trees
- 2–3 foam cups
- Potting soil
- Water
- Notebook
- An adult



What to do:

1. Go outside with an adult.
2. Collect seeds from trees such as maple, ash, pecan, or walnut.
3. Add potting soil to each foam cup.
4. Bury a few seeds in each cup. Water the seeds lightly.
5. Place the cups in a window and water them regularly so that the soil is moist, not wet.
6. Look each day for growing seedlings. Record the dates and your observations in your notebook.

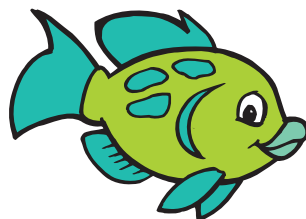
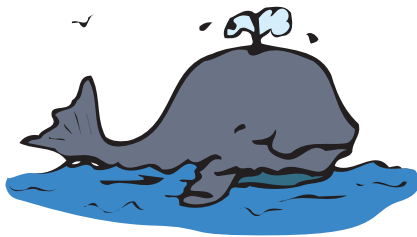
Animal Habitats

A **habitat** is an animal's natural home. Many animals live on land and others live in water. Most animals that live in water breathe with gills. Animals that live on land breathe with lungs.

Directions: Draw each animal below water or land to tell where it lives.

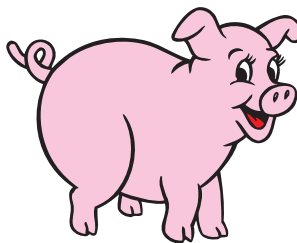
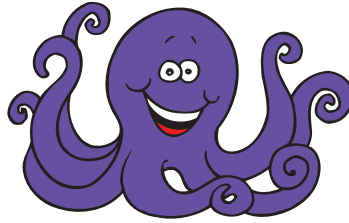
Water

Land



Draw the Habitat

Directions: Draw the correct habitat for each animal below.

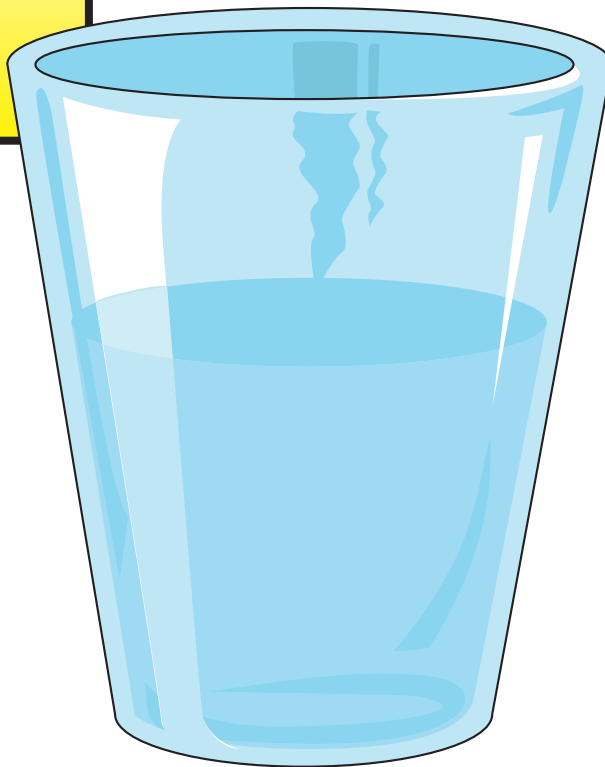


A Salty Experiment

Ocean animals live in a saltwater habitat. People cannot drink salt water. Can you turn salt water into drinking water? Try this experiment and see.

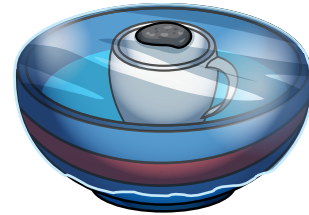
What you'll need:

- $1\frac{1}{2}$ tablespoons table salt
- 3 cups water
- Mixing bowl
- Coffee cup or small bowl
- Plastic wrap
- Small rock
- An adult



What to do:

1. Pour water into the mixing bowl, mix in salt. Stir until the salt is dissolved.
2. Carefully, place the cup or small bowl into the mixing bowl. Don't let any salt water get in it!
3. Cover the mixing bowl with plastic wrap, seal it tight.
4. Find a small rock. Place the rock in the middle of the plastic wrap, as shown. The plastic will slightly slant toward the middle where the cup is.
5. On a sunny day, put the mixing bowl outside. Soon, you will see water droplets form under the plastic and drip into the cup.
6. Wait three hours, then take the plastic off.
7. Taste the water in the cup!



Do you taste salt? _____

What Happened?

The heat made the water vaporize (turn into a gas). The gas turned back into its liquid state. Then, it fell into the cup leaving the salt behind.

Volcanoes

Max and Emma are studying volcanoes in school. Emma wants to make a volcano for her science fair project.

Directions: Max is asking Emma about volcanoes. Help Emma answer. Read about volcanoes and answer the questions.

Volcanoes are mountains that have an opening at the top. The inside of a volcano is very hot. The liquid rock inside a volcano is called **magma**. When a volcano erupts, it sends rocks and magma flying out of it. The rock and magma coming out of a volcano is called **lava**.



The inside of a volcano is very _____.

Liquid rock is called _____.

Directions: Draw a volcano below. Name the different parts.

Paper Mâché Volcano

Emma wants to teach you how to make your own volcano! This fun science project will take a few days to prepare. But, when you are finished, you will have your own steaming volcano. Ask an adult to help you.

What you'll need:

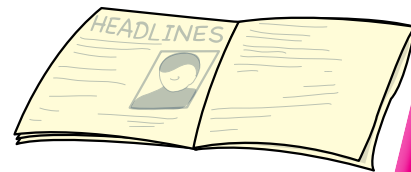
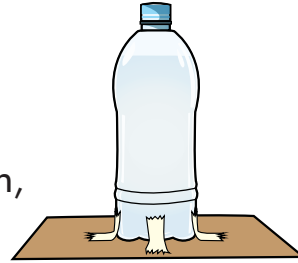
- Large piece of cardboard
- Plastic bottle
- Newspaper
- Glue
- Sticky tape
- Roll of toilet paper
- Paint
- Sand, pebbles, moss (optional)
- An adult



Paper Mâché Volcano

What to do:

1. Tape the empty plastic bottle to the middle of the cardboard, as shown. Then, begin gluing newspaper to the bottle.
2. Use crumpled newspaper to form a cone around the plastic bottle.
3. Mix glue with a little water until it is sticky, but liquid.
4. Next, cut or tear more newspaper into small square pieces. Dip the pieces of newspaper in the glue mixture and place them on the cone.
5. You will want several layers of newspaper around the cone, so let each layer fully dry before adding another.
6. Continue to form a dome shape around the plastic bottle until your volcano is the size you want.



Now . . .

1. Put toilet paper in water until it is mushy.
2. Remove the excess water and add glue until it is firm enough to work with.
3. Use your hands to place the pulp running down your volcano to form ridges and lava flow.
4. Let your creation dry for several days.

To add lava flowing down your volcano, make a paper pulp using toilet paper!

Once your volcano is dry, it is time to paint it. Max has a few tips about painting your volcano.

1. Choose paints that are waterproof when dry—such as acrylic paint.
2. When you paint, use the brush to create texture, instead of smooth paint lines. This will make your volcano look rough and rocky—just like real volcanoes.
3. Make sure to paint the paper pulp running down the volcano **red** or **orange** to represent the lava.
4. You can even glue some real sand, pebbles, or moss to your cardboard to make it look like a forest.



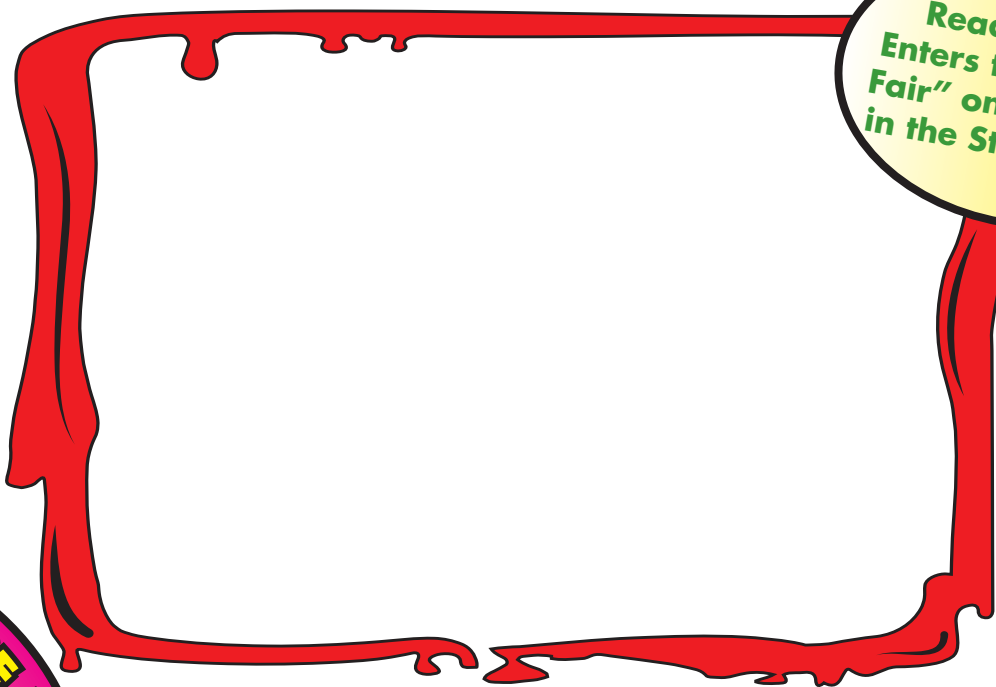
Paper Mâché Volcano

This is everyone's favorite part!

Ask an adult to help you carefully follow the instructions below to create an exciting eruption.

1. Pour baking soda into the bottle inside the volcano. The bottle represents the lava chamber (fill up about a fourth of the bottle).
2. Pour vinegar into a regular drinking glass.
3. Mix red food coloring with the vinegar (optional: you can also add a little starch to the vinegar).
4. Slowly, pour the vinegar mixture into the bottle. The vinegar will react with the baking soda to create an eruption!

Observe your volcano's eruption! Draw it below.



Read "Emma Enters the Science Fair" on page 107 in the Story Zone!

Game Zone



Crack The Code

Directions: Use Max and Emma's secret code to discover a silly but true fact.



A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z



Word Search

Directions: Find the out-of-this-world space words from the word box. Words can be across, down, or diagonal.

c s t b n o j r p i
z h c s k i e s k d
x i g p w s u h n v
t p l a n e t q e s
o u y c l m n a a t
r a a e c i h e r o
b w e c s r e j t s
i e u r s l k n h u
t v r l w d g f a l
c x g m a r s n r a



space

alien

ship

orbit

earth

planet

skies

stars

mars

Maze

Directions: Find your way through the monkey maze. Draw a line through the maze.



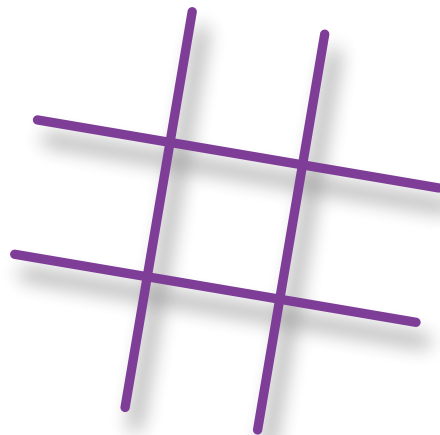
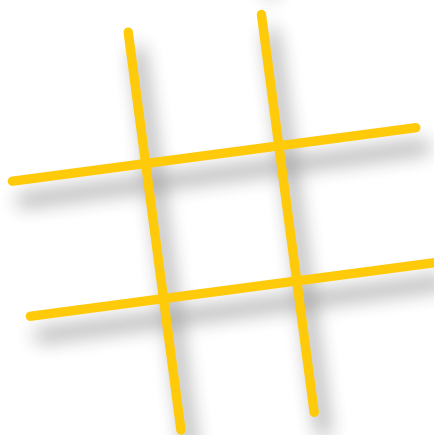
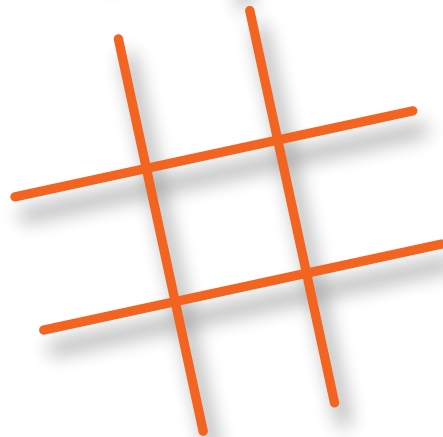
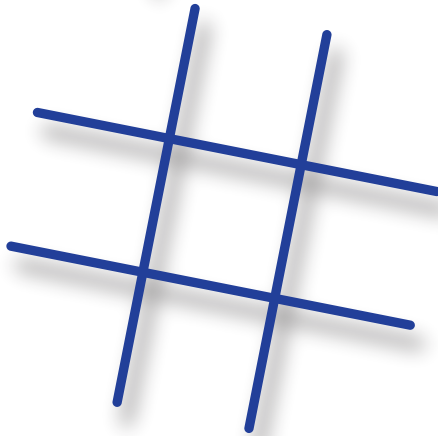
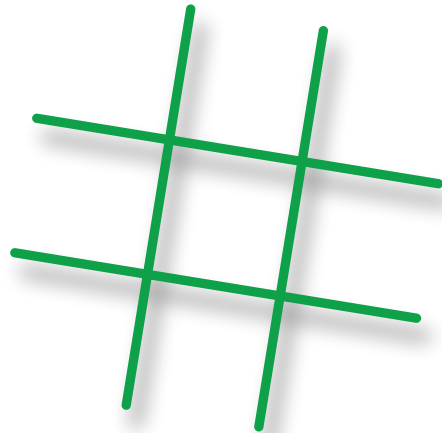
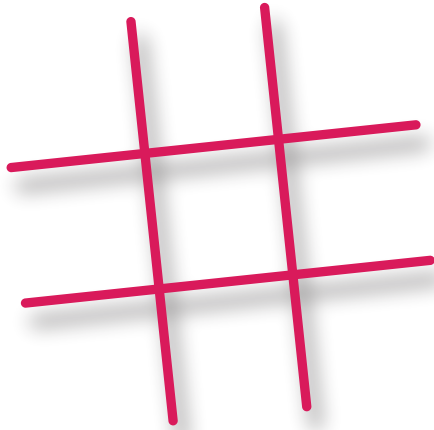
Picture Puzzle

Directions: Cut out the pieces and mix them up. Then, see how fast you can put them back together.



Tic-Tac-Toe

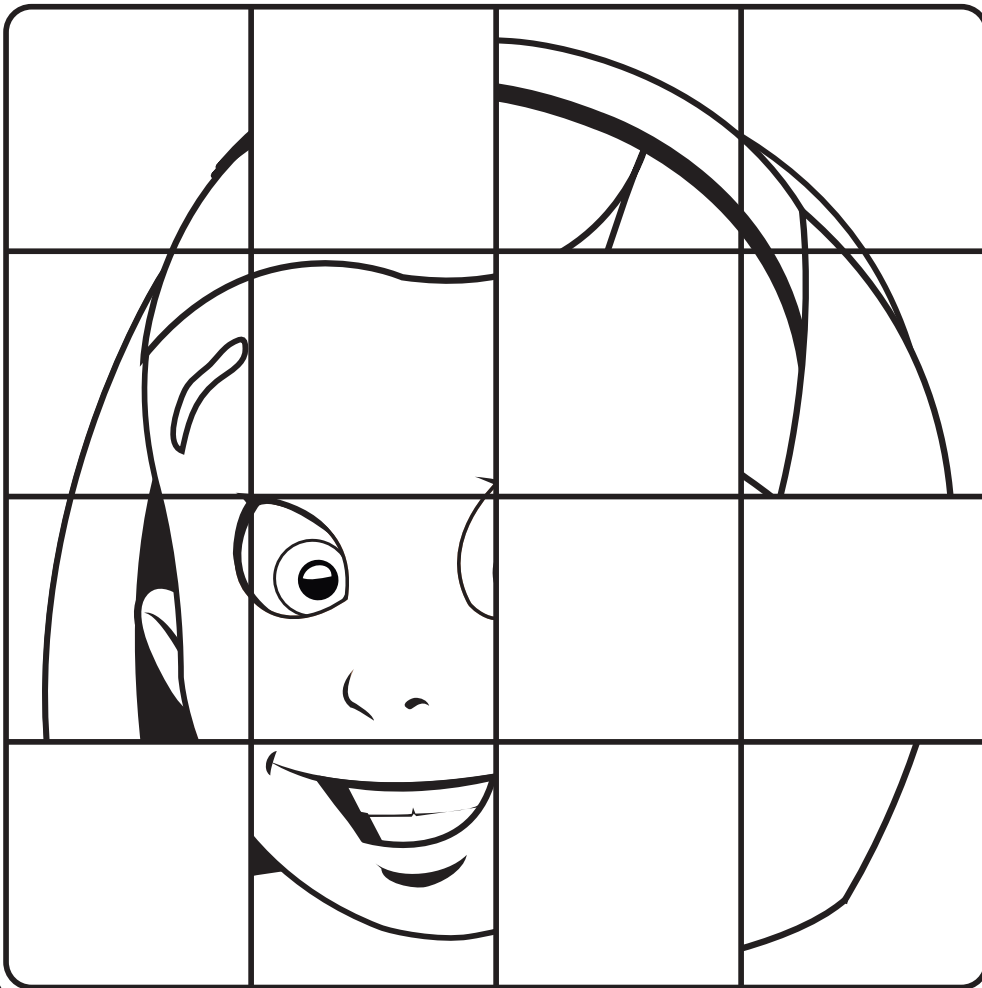
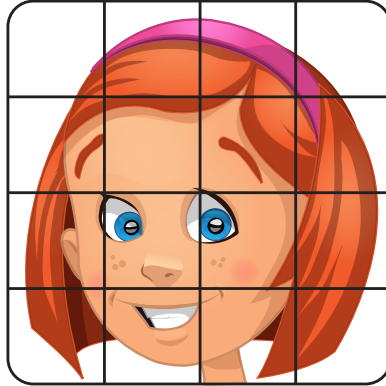
Directions: Play with a friend. Take turns writing **Xs** and **O**s. Three in a row wins the game!



Grid Art

Learn how to draw Emma! Follow the directions below.

Directions: Finish drawing the picture by using the grid as a guide. Then, color it.



Hidden Picture

Directions: There are six things hidden in Max's backyard. Find and circle them.

butterfly

apple

beach ball

baseball bat

frog

turtle

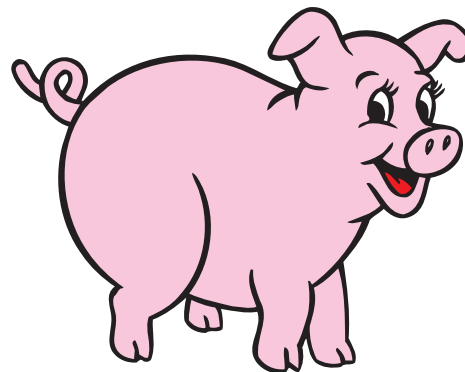


Crack The Code

Directions: Use Max and Emma's secret code to unlock the answer to a joke.

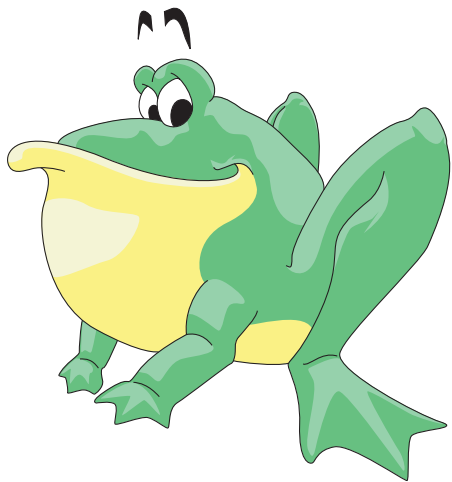
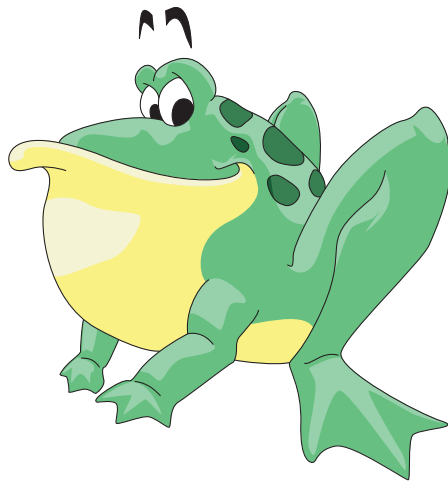
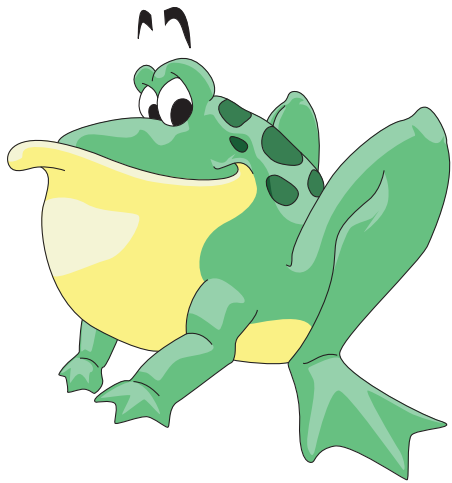
How do you take a sick pig to the hospital?

A	B	C	D	E	F	G	H	I	J	K	L	M
◇	⊕	<	>	≡	≡	<.	∩	∩	∩	∩	∩	∩
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
∩	□	∩	□	∩	∩	∩	□	□	□	⊗	⊗	∩



Which Is Different?

Directions: Look at the frogs below. One is different from the others. Draw an **X** on the frog that is different.



Hidden Picture

Directions: There are eight things hidden in the gumballs. Find and circle them.

beach ball

grape

yellow flower

seashell

soccer ball

half a lime

mouse

lemon



Sudoku

Directions: Complete the Sudoku puzzle. Every row and column must contain the numbers **1**, **2**, **3**, and **4**. Do not repeat the same number twice in any row or column.

	1	4	
4			2
1			4
	4	2	

Word Scramble

Directions: Look at the pictures and words. The words are all scrambled up! Write the words correctly on the lines.



rutkc



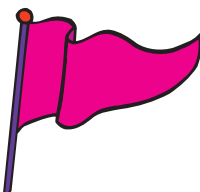
ynra



frgiafe



likm



alfg

Matching Max

Directions: Find and circle the two pictures of Max that are exactly alike.



Which Is Different?

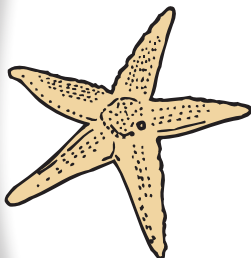
Directions: Look at the aliens below. One is different from the others. Draw an **X** on the alien that is different.



Crack The Code

Directions: Use Max and Emma's secret code to discover a silly but true fact.

A	B	C	D	E	F	G	H	I	J	K	L	M
◇	⊕	<	>	≡	≡	<.	∩	∩	∩	∩	∩	∩
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
∩	□	∩	□	∩	∩	∩	□	□	∩	⊗	⊗	∩



Color Code

Directions: Subtract to find the answers. Use the code to color the jellybeans.

Color Code:

4 = white

7 = blue

10 = brown

13 = yellow

5 = orange

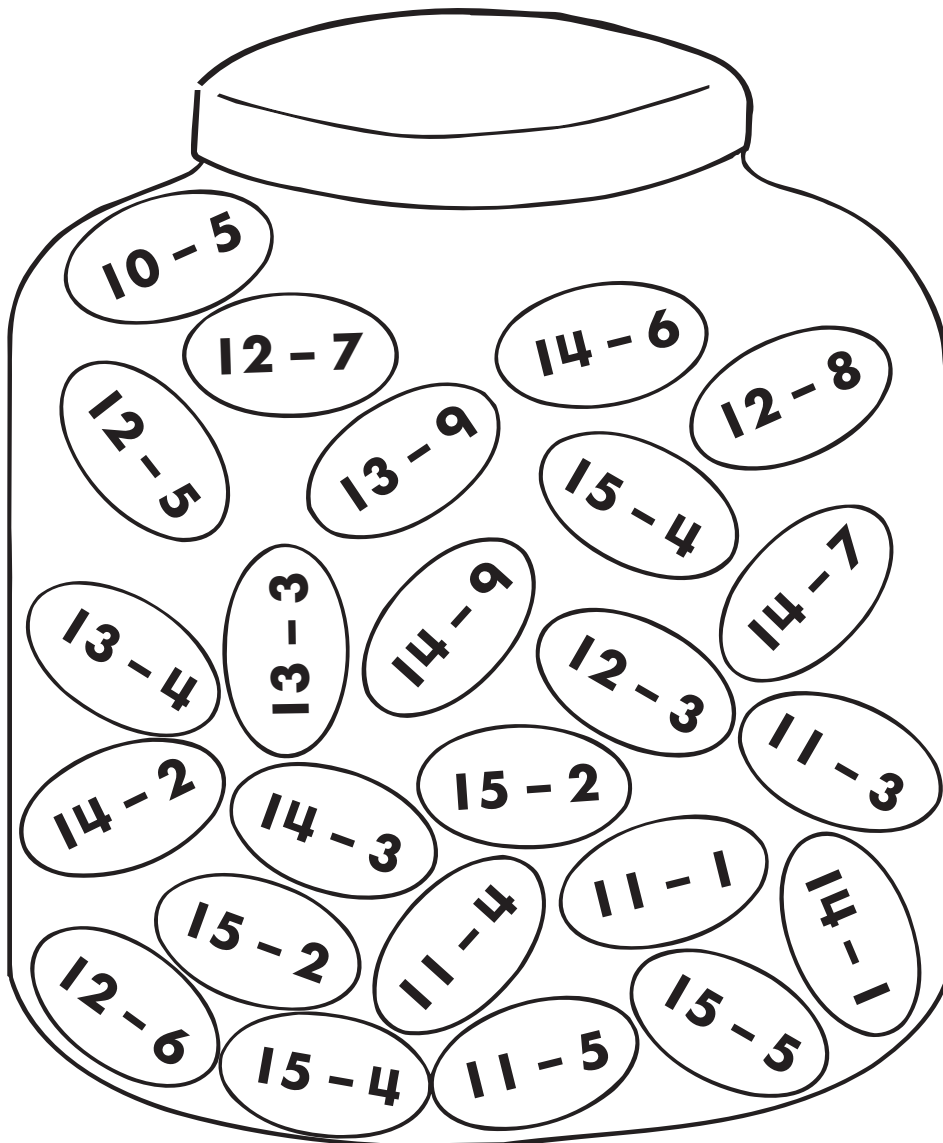
8 = green

11 = black

6 = red

9 = purple

12 = pink



Maze

Directions: Find your way through the undersea maze. Draw a line through the maze.

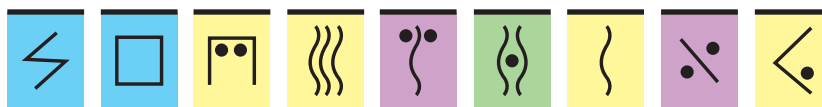


Crack The Code

Directions: Use Max and Emma's secret code to unlock the answer to a joke.

What did one eye say to the other?

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z



Hidden Picture

Directions: There are five things hidden in Emma's lab. Find and circle them.

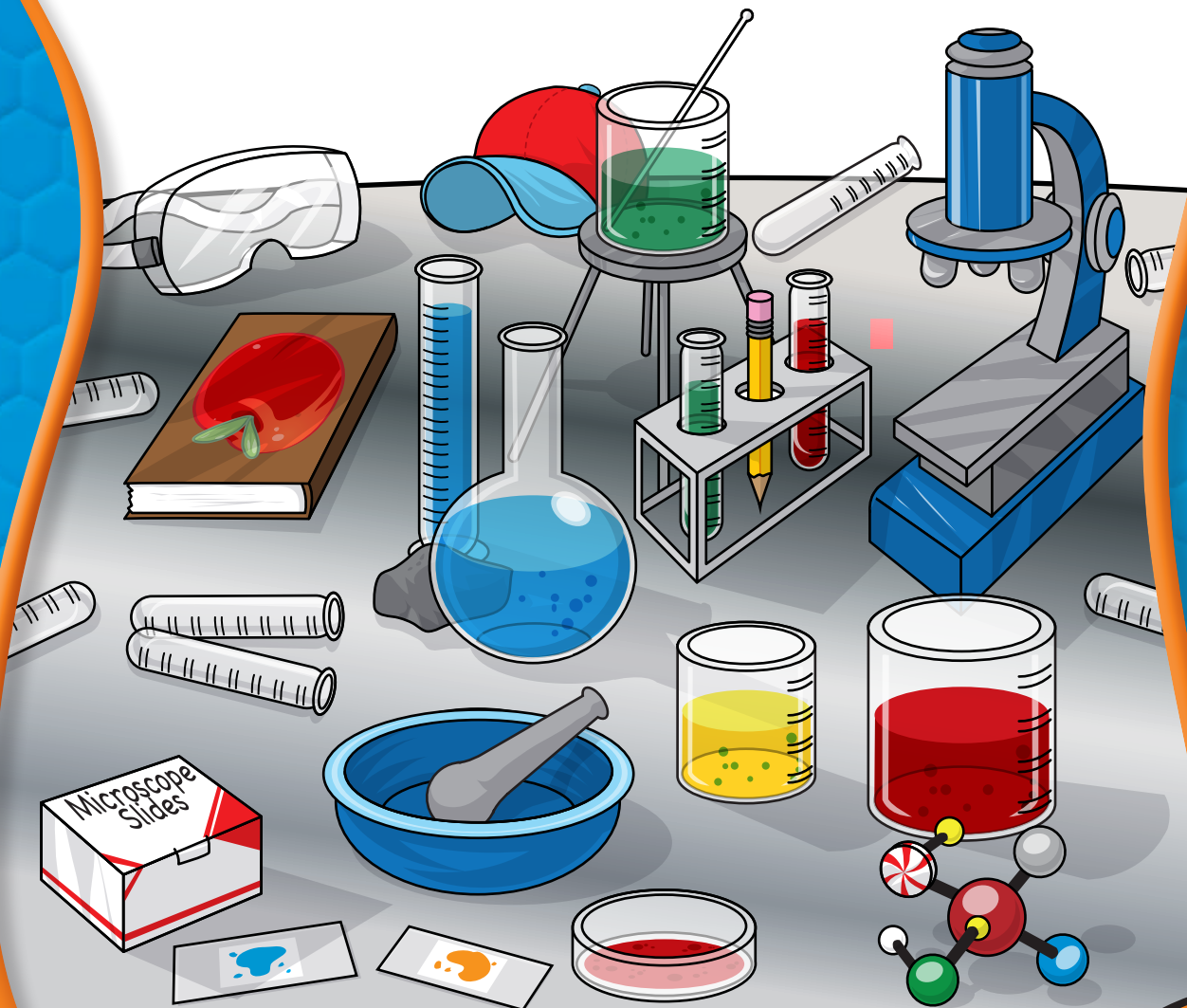
pencil

apple

hat

candy

rock



Number Word Search

Directions: Find the hidden numbers from the box below. They may be hidden across or down.

16177

33899

46437

37269

16396

77468

89448

97987

76373

4	6	4	3	7	1	6	3	9	6
1	3	2	5	7	8	2	6	4	1
0	3	5	1	4	2	3	9	0	8
4	8	7	1	6	1	7	7	6	2
2	9	1	7	8	3	2	8	5	7
5	9	4	9	0	2	6	1	4	6
3	1	7	3	9	7	9	8	7	3
5	2	0	2	1	4	2	6	3	7
7	8	9	4	4	8	3	4	5	3
0	4	1	6	2	3	9	2	7	1

Picture Puzzle

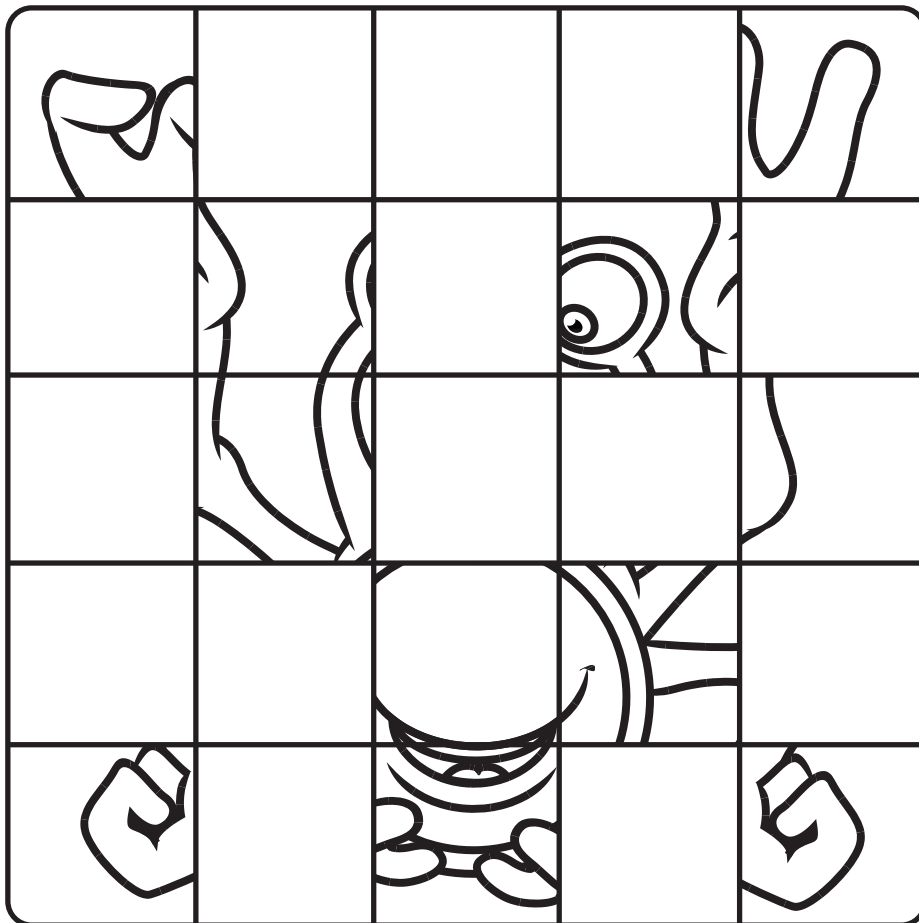
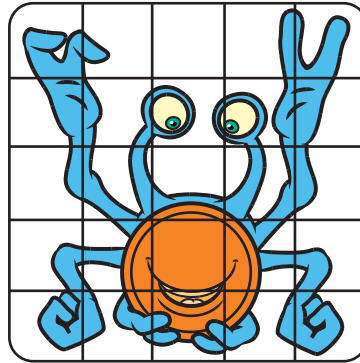
Directions: Cut out the pieces and mix them up. Then, see how fast you can put them back together.







Grid Art




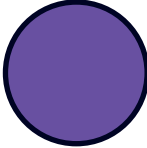
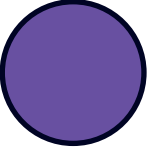
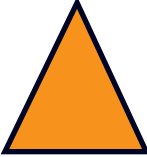


Learn how to draw an alien! Follow the directions below.

Directions: Finish drawing the picture by using the grid as a guide. Then, color it.



Shape Sudoku

Directions: Complete the Sudoku puzzle. Every row and column must contain a , , , and . Do not repeat the same shape twice in any row or column.

Which Is Different?

Directions: Look at the sundaes below. One is different from the others. Draw an **X** on the sundae that is different.

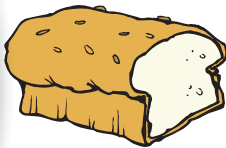


Word Scramble

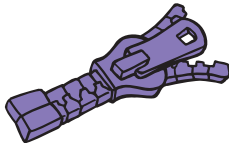
Directions: Look at the pictures and words. The words are all scrambled up! Write the words correctly on the lines.



gsrsa



rebda



pzirep



hrtea



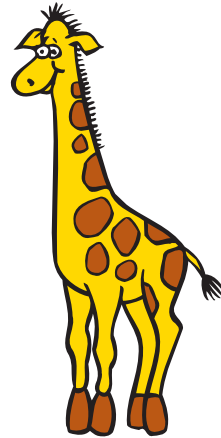
usmoe

Riddles

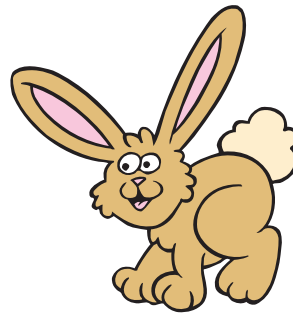
Max wrote some riddles for Emma. Help Emma solve the riddles.

Directions: Draw a line from the riddle to the answer.

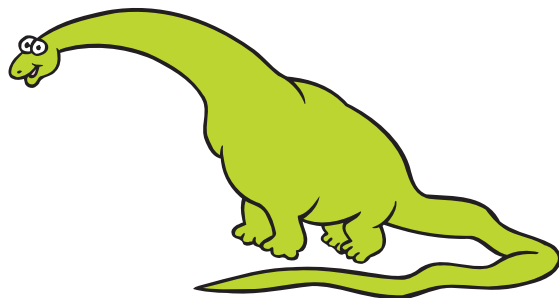
I am very big.
I lived a long, long time ago.
What am I?



My neck is very long.
I eat leaves from trees.
What am I?



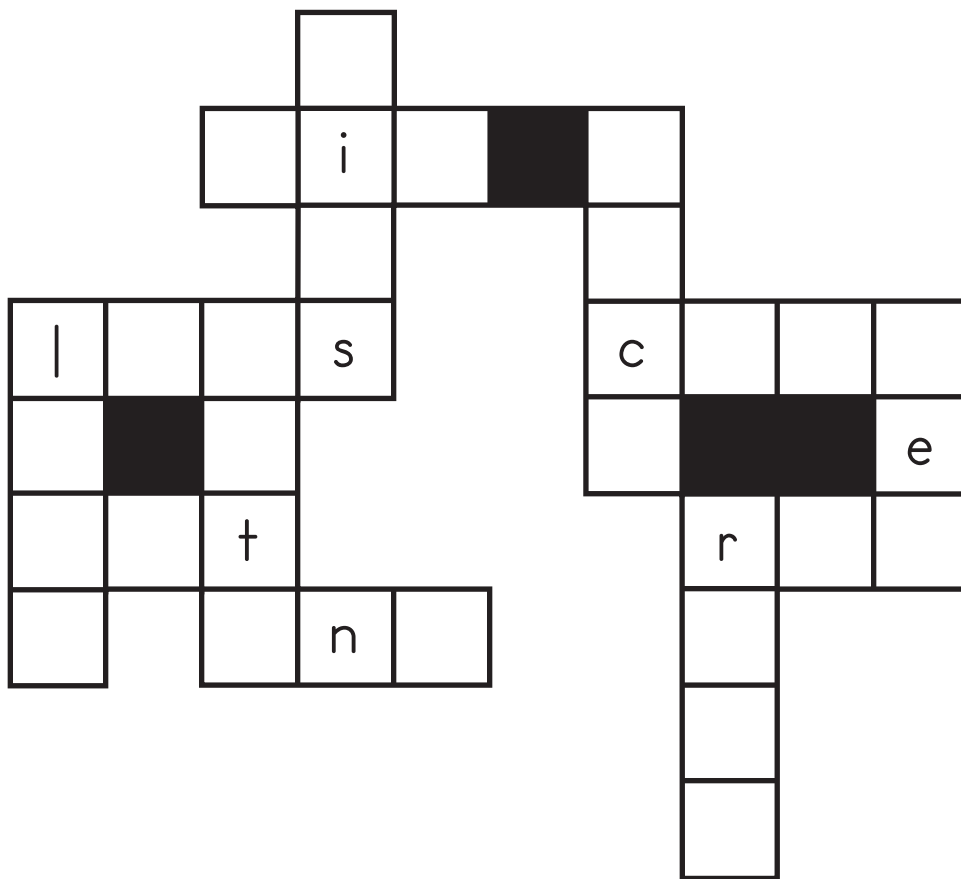
I have long ears.
I hop very fast.
What am I?



Crossword Puzzle

Directions: Finish writing the words from the word box in the puzzle below.

ran	last	legs	digs
gate	camp	rest	sip
sat	pen	end	kick



Maze

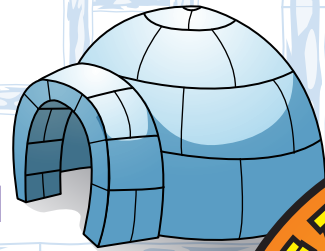
Directions: Help the penguin to the igloo. Draw a line through the maze.







Start

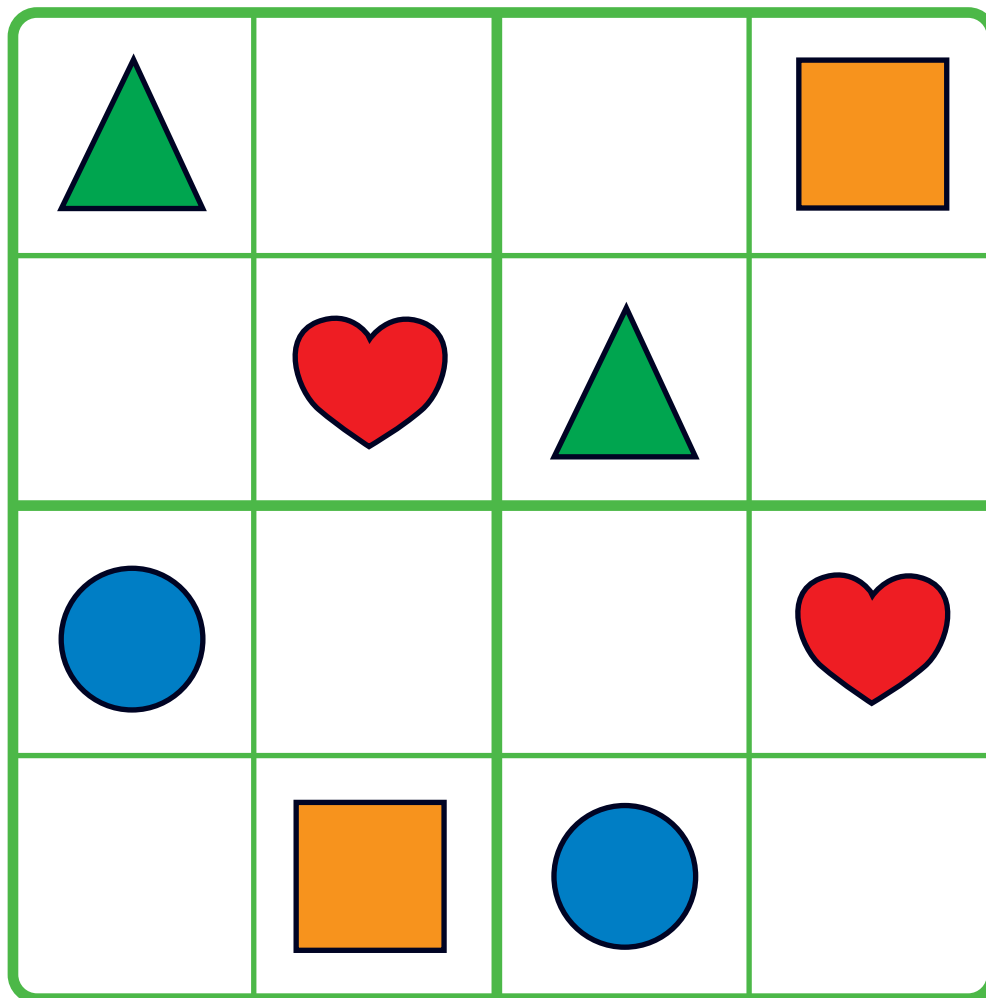


End



Shape Sudoku

Directions: Complete the Sudoku puzzle. Every row and column must contain a , , , and . Do not repeat the same shape twice in any row or column.



Picture Puzzle

Directions: Cut out the pieces and mix them up. Then, see how fast you can put them back together.



Word Search

Directions: Find the out-of-this-world space words from the word box. Words can be across or down.

o i t w e m c v j k
g a l a x y l o l p
s b c g p c t m a n
n k s p e e d c s s
w v l b r o c k e t
u f o u i q w r r a
e k z t m e t e o r
t a x x e n c u j g
q j f g n p b n l r
l i g h t e t t w s



experiment	speed
galaxy	rocket
laser	light
star	meteor

Try the experiment on pages 146 and 147 in the Science Zone!

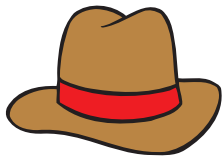
Matching Emma

Directions: Find and circle the two pictures of Emma that are exactly alike.



Matching Game

Directions: Cut out the cards below and on page 197. Mix up the cards and place them facedown. Turn two cards over, one at a time. Try to match two rhyming words together. If no match is made, flip both cards back down. Continue flipping and matching until all the cards are paired.



hat



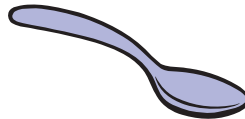
snake



fan



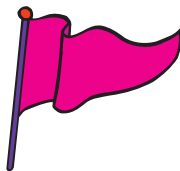
box



spoon



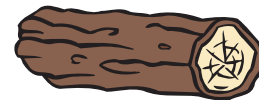
mop



flag



jar



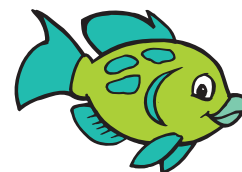
log



clock



sock



fish

Matching Game

Directions: Cut out the cards below and on page 195. Mix up the cards and place them facedown. Turn two cards over, one at a time. Try to match two rhyming words together. If no match is made, flip both cards back down. Continue flipping and matching until all the cards are paired.



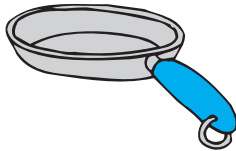
bat



moon



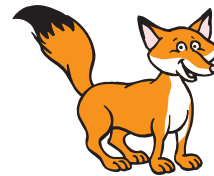
top



pan



dog



fox



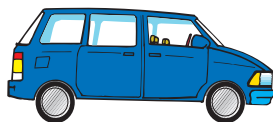
rake



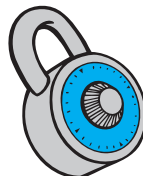
rock



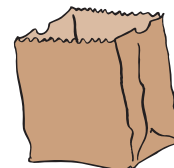
dish



car



lock



bag

Crossword Puzzle

Directions: Finish writing the words from the word box in the puzzle below.

bike

lake

feet

seed

ride

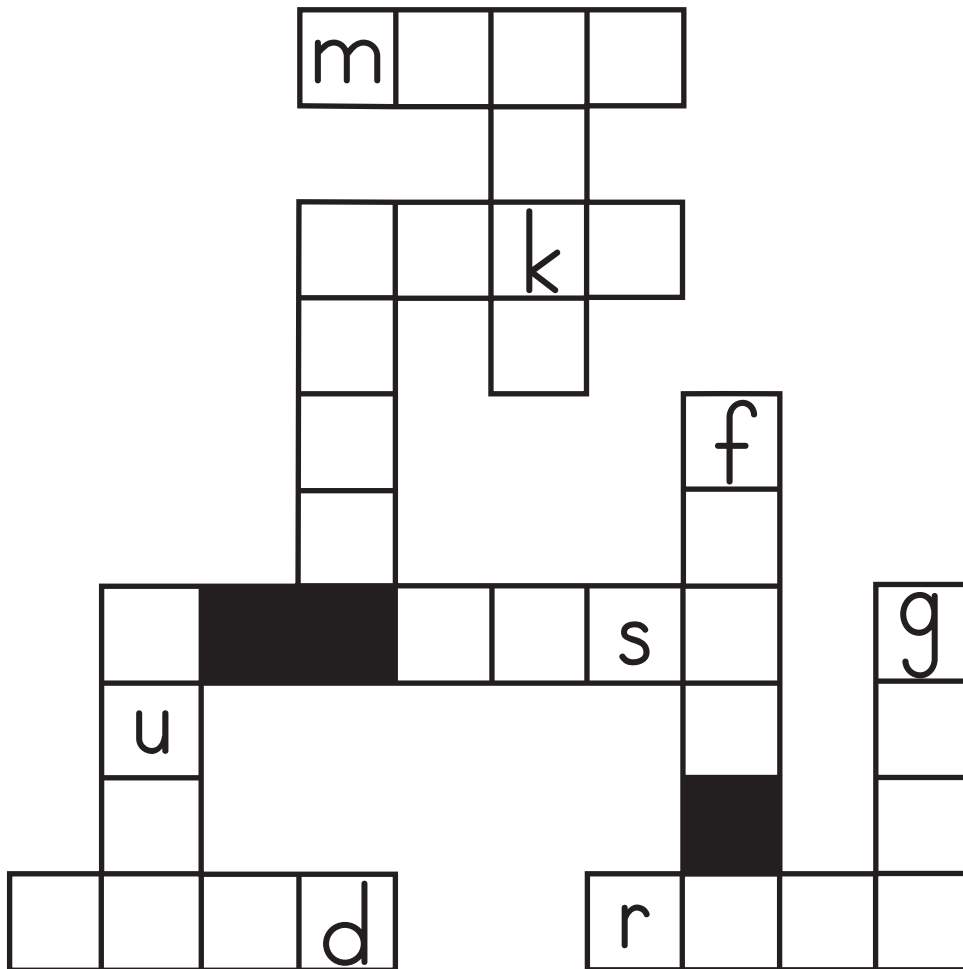
mule

bone

gate

nose

rule



Number Word Search

Directions: Find the number words zero through twelve hidden in the box. Words can be across or down.

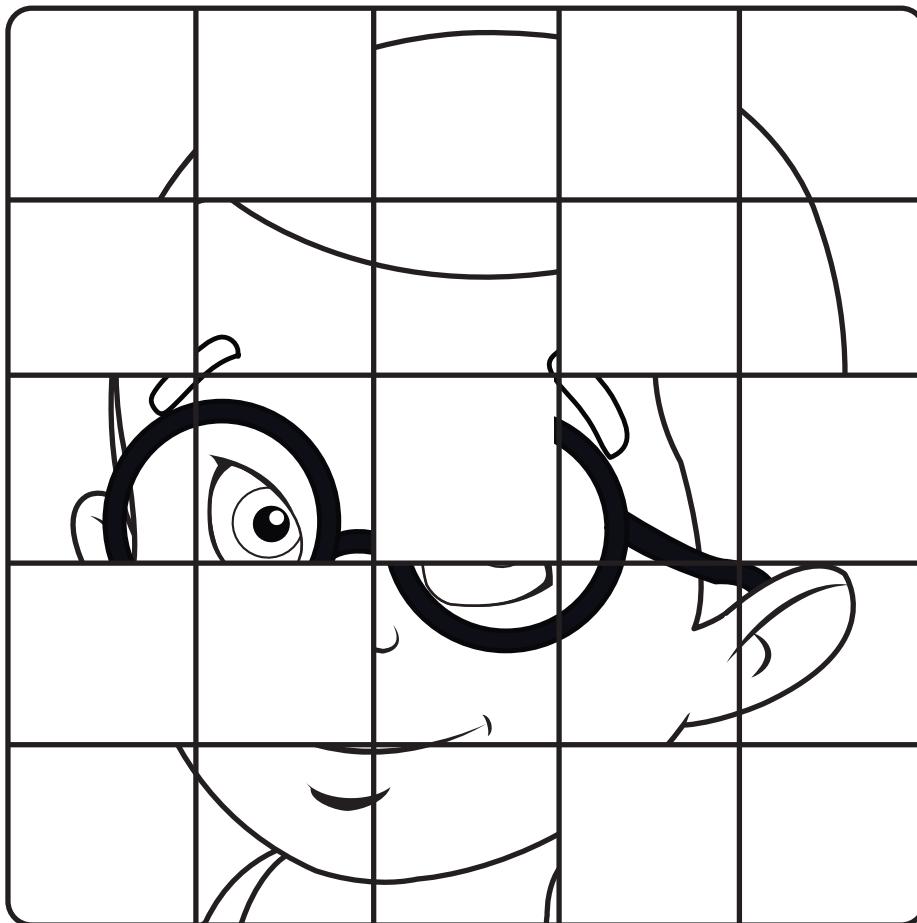
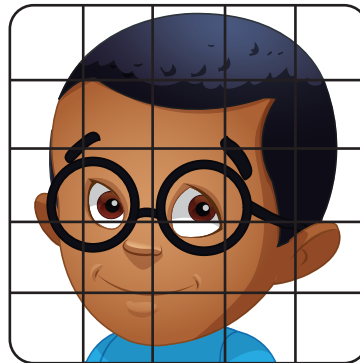
zero	three	six	nine	twelve
one	four	seven	ten	
two	five	eight	eleven	

t e a z w z x a b i g t e n
o l z r b e r e v e d l a j
t w e l v e a b o n e c d z
i a r p q d p s u j x e i w
c f o p l s c k i q u i i o
m s t f v i o e t t f g h d
t n u w u x g z w h g h r o
n i n e k f d f o u r t j f
a s g l q c w k o s n v m i
n y c e b o n h h p o m p v
b e x v s s e v e n w e n e
t h r e e r t a l j k x q z
m o a n e n i m u t w a y x

Grid Art

Learn how to draw Max! Follow the directions below.

Directions: Finish drawing the picture by using the grid as a guide. Then, color it.



Which Is Different?

Directions: Look at the pictures below. One is different from the others. Draw an **X** on the picture that is different.



Max and Emma Go to the Fair

Directions: Fill in the nouns, adjectives, and verbs below. Then, write them in the story to create your own fun and silly Max and Emma adventure.



Noun (person, place, or thing) _____

Verb (action word) _____

Adjective (describing word) _____

Adjective (describing word) _____

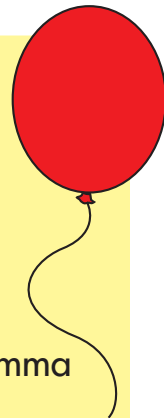
Max and Emma are at the fair. First, they go see the

_____. Max is so excited he
noun

_____ the whole way there! Emma
verb +s

stops to buy a _____ cotton candy.
adjective

They love coming to the _____ fair.
adjective

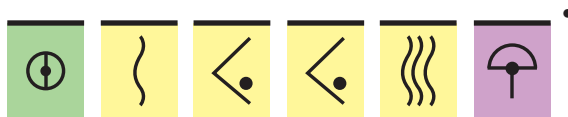
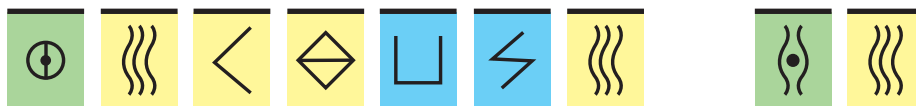


Crack The Code

Directions: Use Max and Emma's secret code to unlock the answer to a joke.

Who is bigger, Mr. Bigger or Mr. Bigger's baby?

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z



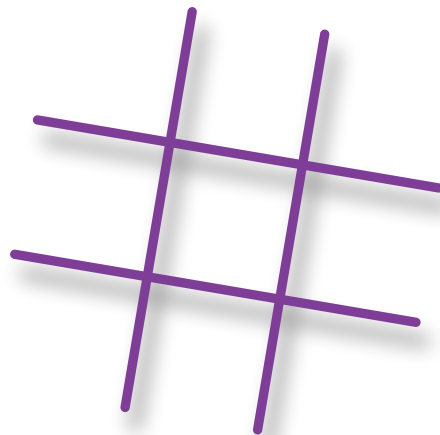
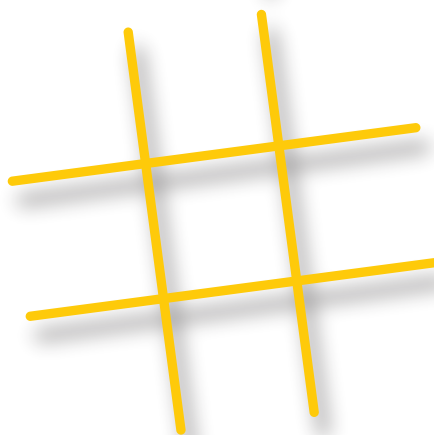
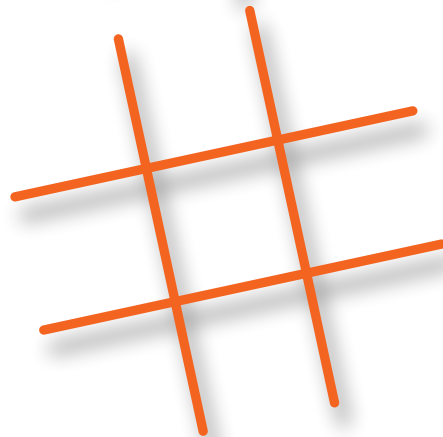
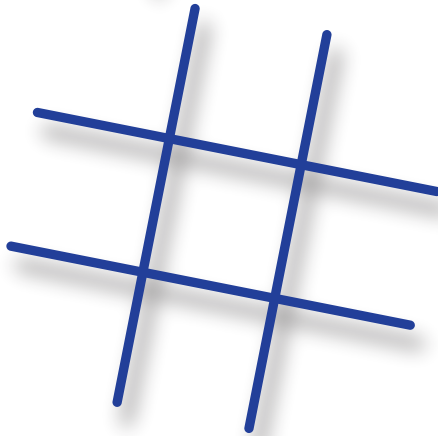
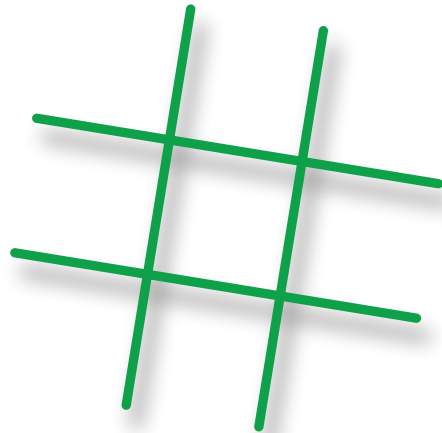
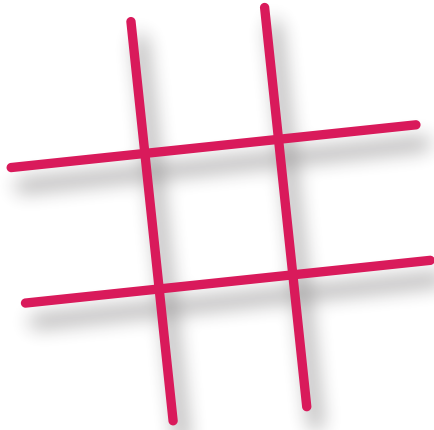
Picture Puzzle

Directions: Cut out the pieces and mix them up. Then, see how fast you can put them back together.



Tic-Tac-Toe

Directions: Play with a friend. Take turns writing **Xs** and **O**s. Three in a row wins the game!



Sudoku

Directions: Complete the Sudoku puzzle. Every row and column must contain the numbers **5**, **6**, **7**, and **8**. Do not repeat the same number twice in any row or column.

5			7
	8	6	
	5	7	
6			8

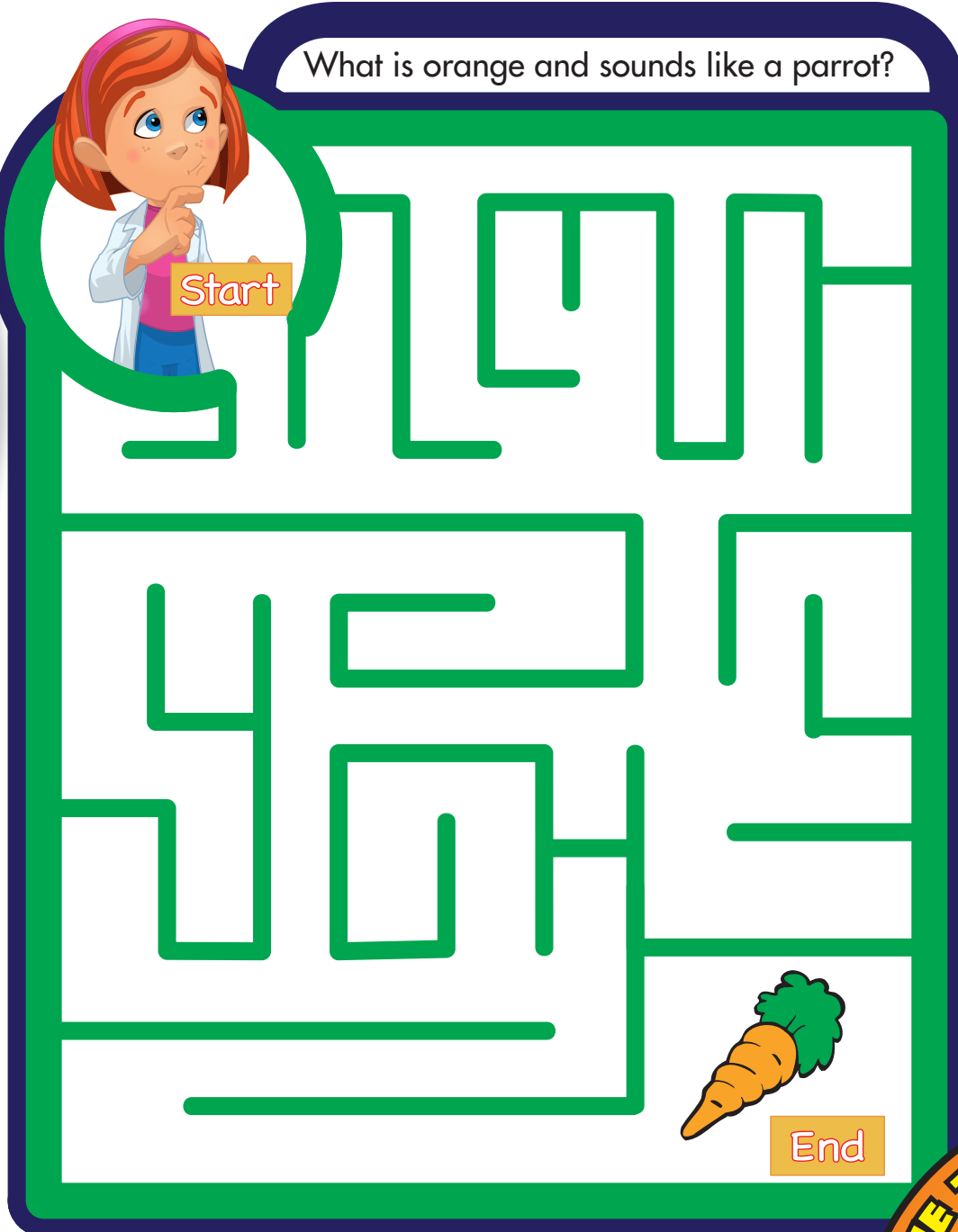
Maze

Directions: Help Emma answer a riddle. Draw a line through the maze to find the answer.

What is orange and sounds like a parrot?



Start



End

Crossword Puzzle: Opposites

Directions: Read each clue. Write the answers in the puzzle.
Use the word box to help you.

1								
2		3						
		4			5			
				6				

Across

- 1. opposite of low
- 2. opposite of no
- 4. opposite of empty
- 6. opposite of loose

Down

- 1. opposite of light
- 3. opposite of dangerous
- 5. opposite of right

high	safe	left	full
heavy	yes	tight	

Hidden Picture

Directions: There are eight things hidden in the jellybeans. Find and circle them.

orange
cherry
cookie

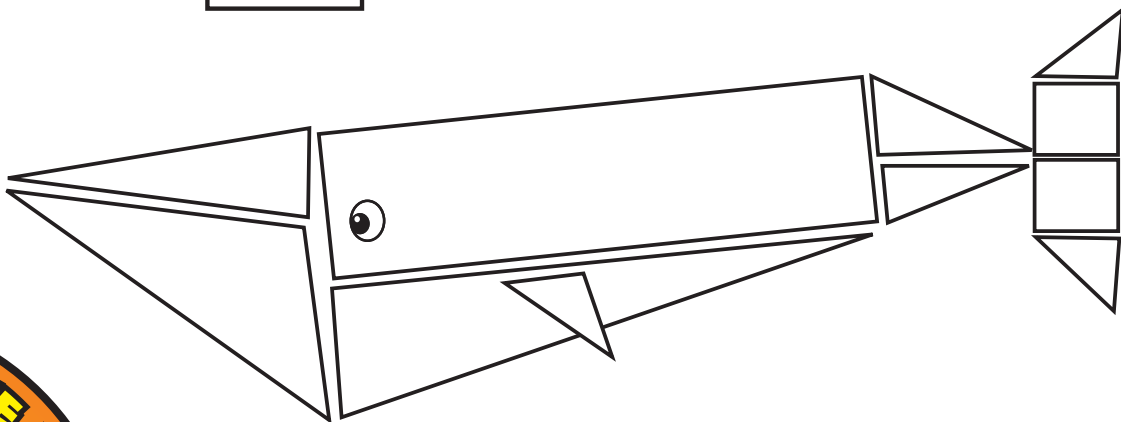
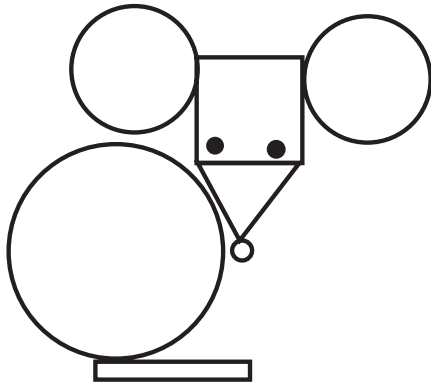
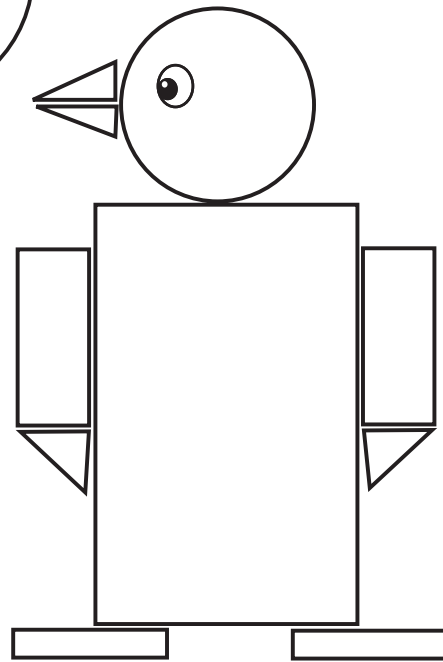
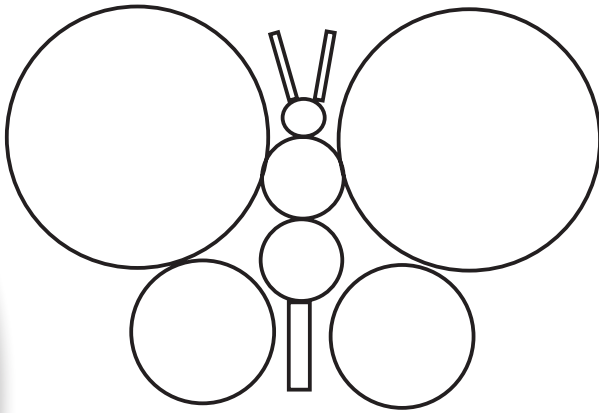
pencil sharpener
pink bow
strawberry

tennis ball
blue marble



Color Code: Shapes

Directions: Color the squares **green**, rectangles **yellow**, circles **red**, and triangles **blue**.



Reveal Hidden Picture

Directions: Color all of the vowels a, e, i, o, and u **black** to discover something hidden in the puzzle.

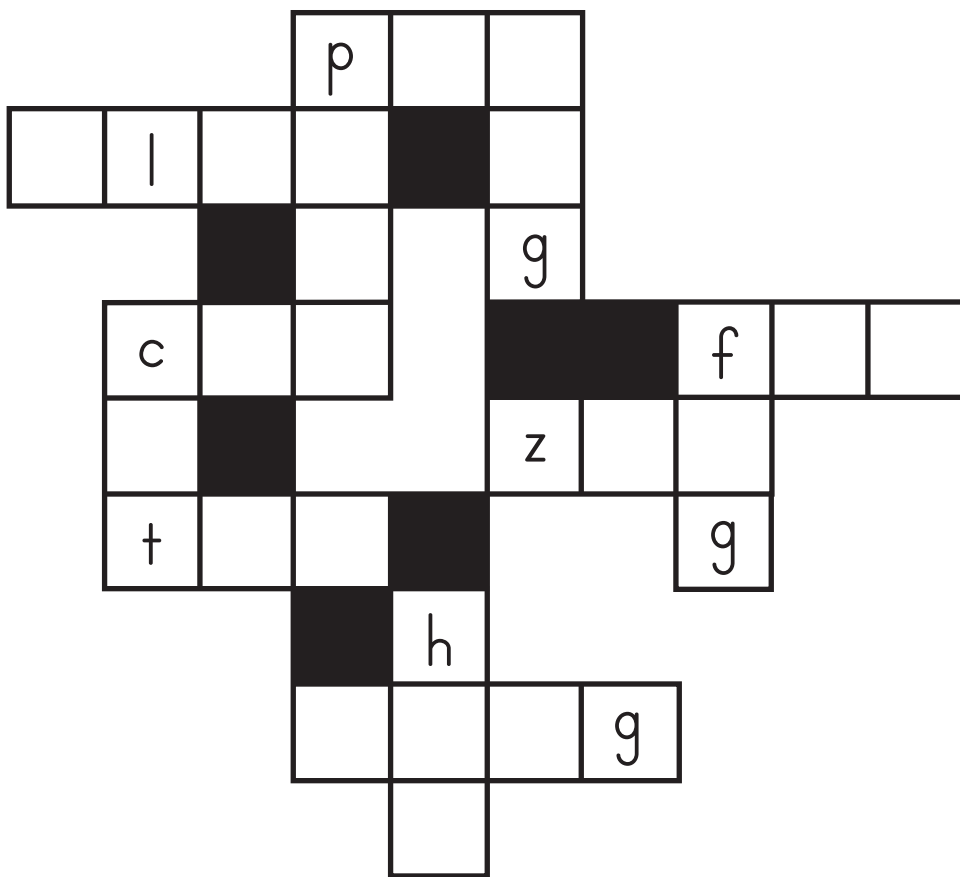


j e j g w d q n j c g c u b
k g u m b j h c h w l o d s
r c z i l p q s b k i n z f
g k w x e d a e f e l x q k
v r f j p i o u a g n f s b
d n v m a e e i u u h b s f
u a e i e u a i u e a e i u
l z k i u u a a e e i m w z
q h r a e u e i a e e c c b
i u u e o a o u o i i o o u
t x b h a i e o u a d v r l
c h f s j e i e i f f k j v
n m d t e g a o t i j m x h
t p g i c v h n g d o p r l
l h o k q f r p s j t u g v

Crossword

Directions: Finish writing the words from the word box in the puzzle below.

cat	pop	song	zoo
fog	fan	pear	tan
car	pig	hop	blue



Which Is Different?

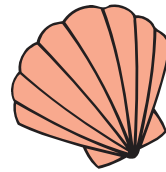
Directions: Look at the dogs below. One is different from the others. Draw an **X** on the dog that is different.



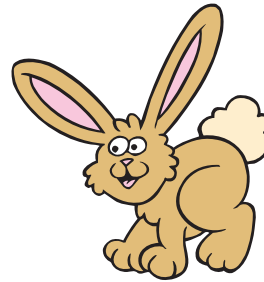
Tongue Twisters

Directions: Read the tongue twisters below out loud. Can you say them fast three times? Share them with your friends and family.

She sells seashells by the sea shore



Mad bunny, bad money



Mary made more mango muffins

Black background, **brown** background

Rolling **red** wagons



Black back bat

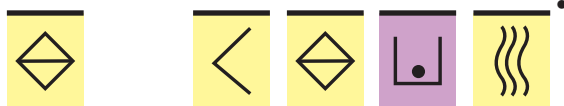
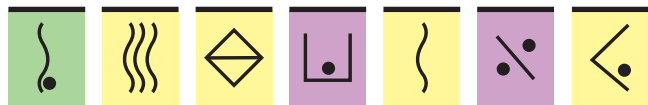
Six slimy snails sailed silently



Crack The Code

Directions: Use Max and Emma's secret code to discover a silly but true fact.

A	B	C	D	E	F	G	H	I	J	K	L	M
◇	⊕	<	>	≡	≡	<	∩	∪	∩	∩	∩	∩
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
∩	□	∩	□	∩	≡	∩	□	∩	∩	⊗	⊙	∩



Emma's New Pet

Directions: Fill in the nouns, adjectives, and verbs below. Then, write them in the story to create your own fun and silly Max and Emma adventure.

Noun (animal) _____

Adjective (describing word) _____

Verb (action word) _____

Noun (thing) _____

Emma has a new pet. It is a _____!

noun

Max is playing with it, too. He thinks it is very

_____. Emma _____ with

adjective **verb +s**

her new pet. She gives it a new _____.

noun

Now, it just needs a name.

What should Emma name her pet?

Picture Puzzle

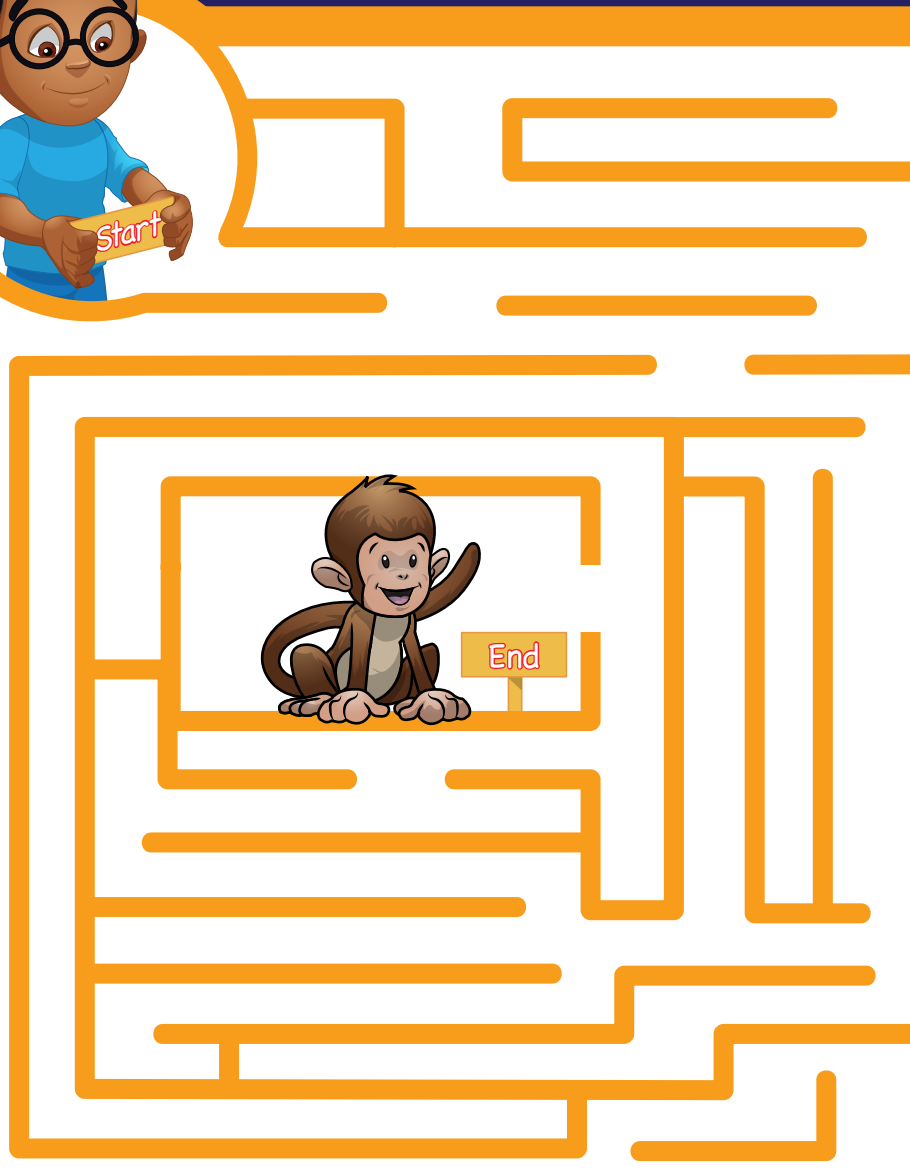
Directions: Cut out the pieces and mix them up. Then, see how fast you can put them back together.



Maze

Directions: Help Max answer a riddle. Draw a line through the maze to find the answer.

What kind of key will not open a door?







Hidden Picture

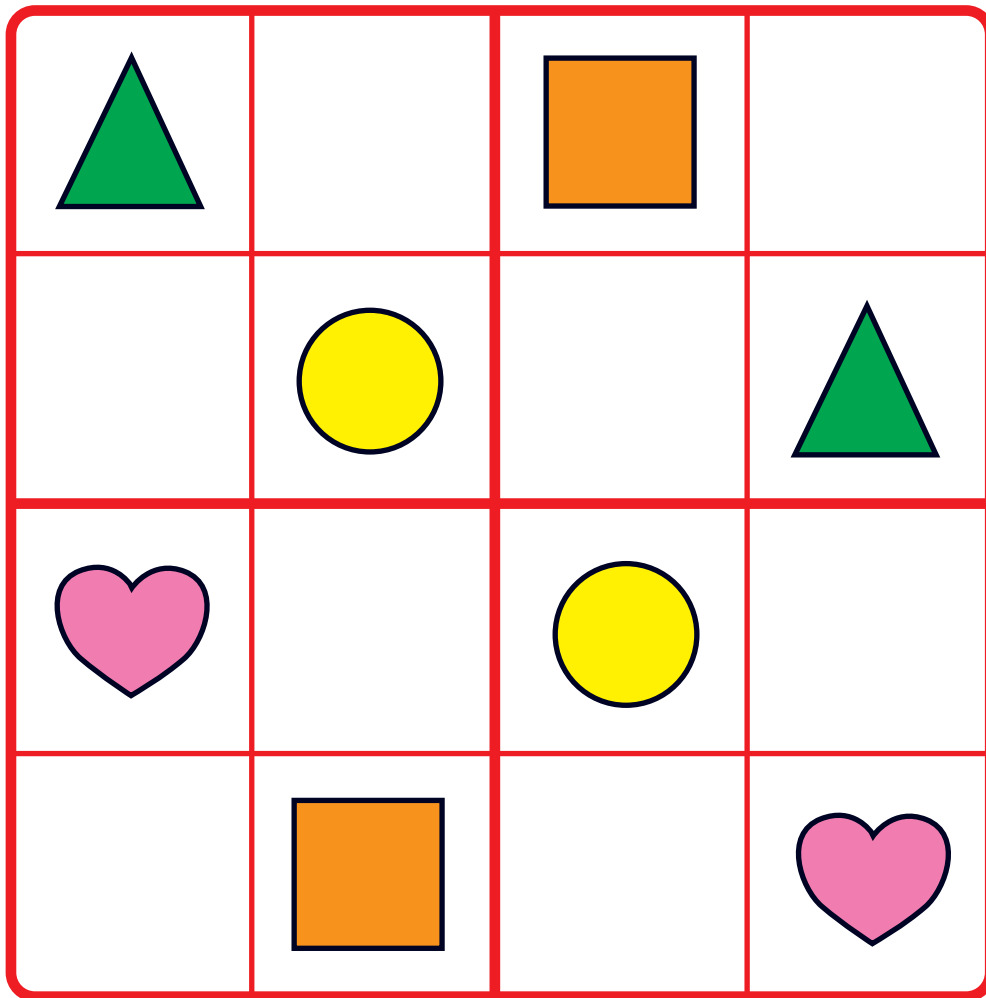
Directions: There are eight things hidden in the picture. Find and circle them.

bow	lime	marble	soccer ball
flower	lock	pepper	tennis ball



Shape Sudoku

Directions: Complete the Sudoku puzzle. Every row and column must contain a , , , and . Do not repeat the same shape twice in any row or column.



What Is Different?

Directions: Look at the two pictures. There are five things different in **Picture 2**. Find and circle them.

Picture 1



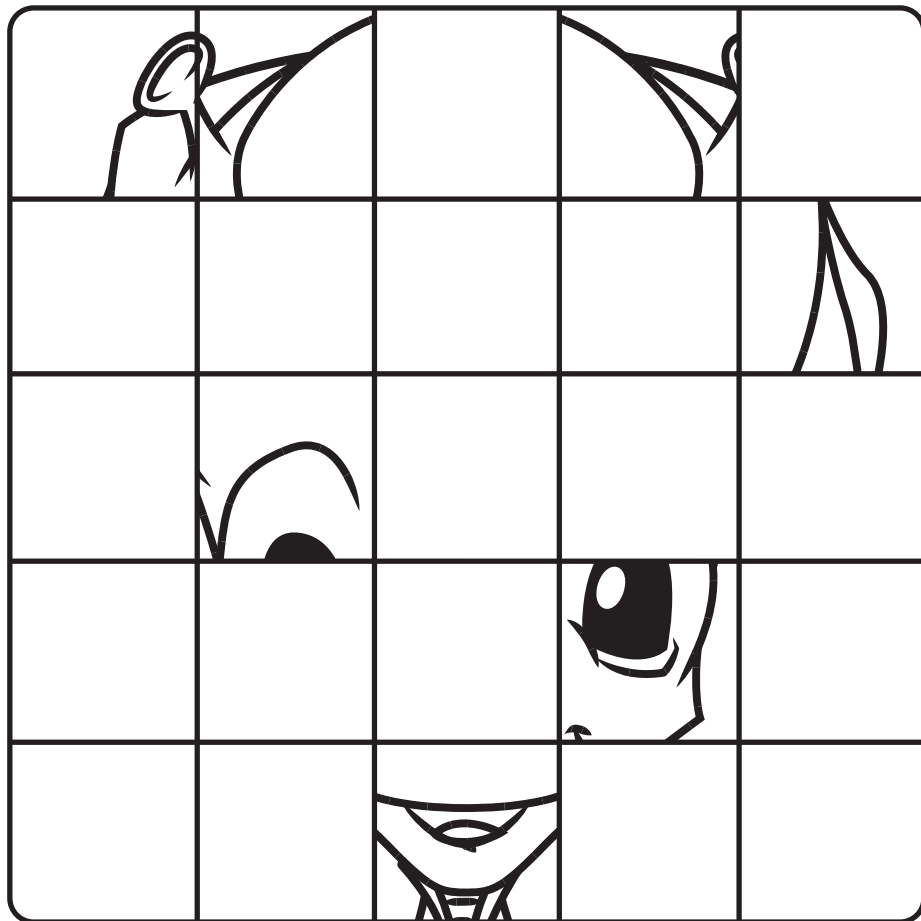
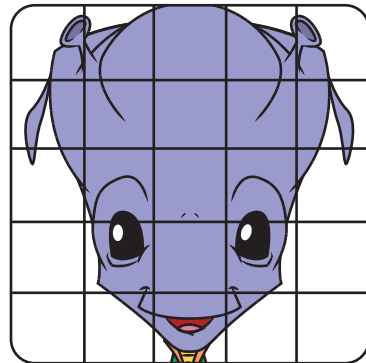
Picture 2



Grid Art

Learn how to draw an alien! Follow the directions below.



























Directions: Finish drawing the picture by using the grid as a guide. Then, color it.



Create Your Own Message

Max and Emma want you to write a secret message! Give your message to a friend.

Directions: Use Max and Emma's code key to create your own secret message in the space below.

A	B	C	D	E	F	G	H	I	J	K	L	M
												
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
												

Answer Zone



Number Recognition

Directions: Use the color code to color the parrot.



MATH ZONE
52

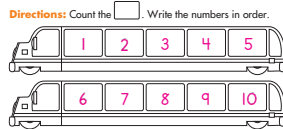
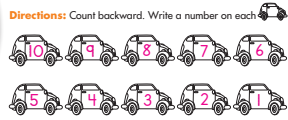
Number Recognition: Mix and Match Up

Directions: Cut out the pictures and number words below. Mix them up and match them.



MATH ZONE
53

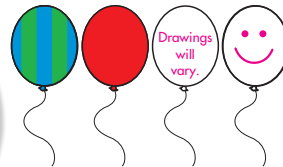
Counting



MATH ZONE
55

Ordinal Numbers: Birthday Balloons

Max and Emma are at a birthday party! Which balloon will they pick? Look at the balloons and follow the directions.



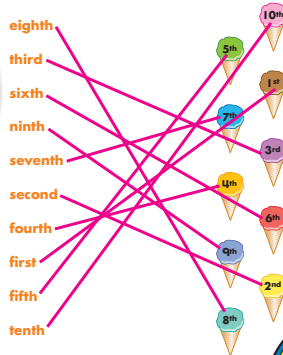
Directions: Color the **second** balloon red.
 Draw a smiley face on the **fourth** balloon.
 Draw **blue** and **green** stripes on the **first** balloon.
 Draw an animal on the **third** balloon.

MATH ZONE
56

Ordinal Numbers: Ice Cream Dilemma

Max and Emma love ice cream. Help them decide which ice cream cone to eat first and which to eat last.

Directions: Draw a line to the picture that matches the ordinal number in the left column.

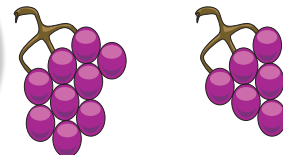


MATH ZONE
57

More Than

The symbol $>$ means **more than**. It is written like this: $7 > 5$.

Directions: Count the grapes. Write the numbers on the lines. Use the symbol $>$ to write which bunch has more.



9 $>$ 6

MATH ZONE
58

Less Than

The symbol $<$ means **less than**. It is written like this: $6 < 7$.
Directions: Count the seeds on the watermelon. Draw less seeds on the watermelon below it.



Answers will vary.



Directions: Fill in the number of seeds you drew on the line below. Then, write the math symbol that means **less than**.

____ $<$ 9

MATH ZONE
59

Crazy for Bananas!

The monkeys at the zoo eat a lot of bananas. Which monkey eats more?

Directions: Count the bananas. Circle the monkey that eats more. Write the missing math symbol in the circle.



8 $>$ 5

Directions: Write the missing math symbol in each circle.

18 $>$ 15

20 $>$ 12

4 $<$ 6

2 $>$ 1

10 $>$ 5

14 $>$ 13

7 $>$ 3

7 $<$ 11

MATH ZONE
60

More and Less

Directions: For each pair of numbers, draw a circle around the number that is more.



Directions: For each pair of numbers, draw a circle around the number that is less.

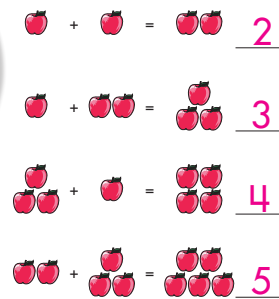


MATH ZONE
61

Apple Addition

Addition means putting together or adding two or more numbers. When you add two numbers together you get a **total** or **sum**. The symbol used for addition is called a **plus sign** (+). The symbol used for a total is an **equal sign** (=).

Directions: Count the apples and write how many.



MATH ZONE
62

Addition

Directions: The key words **in all** tell you to add. Circle the key words **in all** and solve the problems.

A monster has 4 yellow shoes and 2 red shoes. How many shoes does the monster have **in all**?

4 + 2 = 6

Now, draw the monster wearing all the shoes.



Drawings will vary.

A monster is wearing 2 hats. Then, it puts on 7 more hats. **In all**, how many hats is it wearing?

2 + 7 = 9

Now, draw a monster wearing all the hats.

Drawings will vary.

MATH ZONE
63

Emma's Addition

Emma loves addition! Help Max solve the math problems she wrote for him. Then, create your own addition problem for a friend.

Directions: Add the numbers.

8 + 1 = 9 2 + 5 = 7 3 + 7 = 10 5 + 4 = 9 4 + 1 = 5

9 + 1 = 10 5 + 3 = 8 2 + 2 = 4 5 + 5 = 10 6 + 0 = 6

Directions: Create your own problem. Give it to a friend to solve.

____ + ____ = ____
 Answers will vary.



MATH ZONE
64

Spaceship Addition

Directions: Add the numbers. Write each answer on the spaceship.

$2 + 4 =$  $1 + 3 =$ 

$3 + 2 =$  $5 + 1 =$ 



$2 + 2 =$  $6 + 2 =$ 

$4 + 6 =$  $2 + 7 =$ 




MATH ZONE
65

Addition Problem Solving



Directions: Solve each problem. Show your work. The first one is done for you.

There are 4 .
5 more  come.
Now, how many are here? 9



$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

There are 5 .
There are 6 .
How many  and  in all? 11

$$\begin{array}{r} 5 \\ + 6 \\ \hline \end{array}$$

Jenny has 5 .
She finds 2 more .
What is the sum of 5 + 2? 7

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

There are 8 .
2  join.
What is 8 plus 2? 10

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

MATH ZONE
66

Addition: Color Code

Directions: Add to find the sum. Use the code to color the picture.

Color Code:
1 = red 3 = black 5 = brown
2 = yellow 4 = blue 6 = green





MATH ZONE
67

Subtraction

Subtraction means taking away or subtracting one number from another. The symbol used for subtraction is called a **minus sign (-)**. It means to subtract the second number from the first.


Directions: Solve the number problem under each picture. Write how much fruit is left. The first one is done for you.


 $5 - 2 =$ 3


 $7 - 3 =$ 4


 $3 - 2 =$ 1



 $6 - 1 =$ 5


 $4 - 2 =$ 2

MATH ZONE
68

Subtraction: Pond Problems

Directions: Complete the subtraction sentences.



 $4 - 4 =$ 0


 $10 - 2 =$ 8


 $7 - 3 =$ 4


 $6 - 5 =$ 1


 $8 - 3 =$ 5


 $5 - 2 =$ 3

MATH ZONE
69

Butterfly Scramble

Emma wants to study butterflies in her science lab. But they keep flying away! Help catch the butterflies.

Directions: Circle the key word **left**. Write a number sentence to solve each subtraction problem.

Emma put 6 butterflies in her jar. But 2 flew out. How many butterflies are **left** in the jar?

$6 - 2 =$ 4

There were 10 butterflies in a tree. Then, 9 flew into a bush. How many butterflies were **left** in the tree?

$10 - 9 =$ 1

Max saw 15 butterflies. He caught 8 of them. How many butterflies does Max have **left** to catch?

$15 - 8 =$ 7

Directions: Draw a picture of Max and Emma chasing the butterflies.

Drawings will vary.

MATH ZONE
70

Max's Subtraction

Max loves subtraction! Help Emma solve the math problems he wrote for her. Then, create your own subtraction problem for a friend.

Directions: Subtract to find the difference.

$$\begin{array}{r} 10 \\ -7 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 9 \\ -5 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 4 \\ -3 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 2 \\ -0 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 9 \\ -3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 6 \\ -2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 8 \\ -6 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 10 \\ -6 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 7 \\ -5 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 8 \\ -7 \\ \hline 1 \end{array}$$

Directions: Create your own problem. Give it to a friend to solve.

Answers will vary.



MATH ZONE
71

Subtraction Problem Solving

Directions: Solve each problem. Show your work. The first one is done for you.

There are 7 .
4 swim away.

$$\begin{array}{r} 7 \\ -4 \\ \hline \end{array}$$

How many are left? 3

Brian wants 10 .
He has 3 .

$$\begin{array}{r} 10 \\ -3 \\ \hline \end{array}$$

What is the difference? 7

Marla has 8 .
She gives 4 away.

$$\begin{array}{r} 8 \\ -4 \\ \hline \end{array}$$

What is 8 - 4? 4

There are 7 .
2 pop.

$$\begin{array}{r} 7 \\ -2 \\ \hline \end{array}$$

How many are left? 5

MATH ZONE
72

Subtraction: Color Code

Directions: Solve the subtraction problems. Use the code to color the picture.

Color Code:
0 = green 2 = blue 4 = black
1 = brown 3 = purple 5 = pink



MATH ZONE
73

Addition and Subtraction: Crack the Code

Max has a joke for you! Solve the math problems to decode the answer.

Directions: Add or subtract the problems. Then, use your answer and the key to write the correct letter on the line above the problem. The first one is done for you.

What is an alien's favorite sweet treat?

$$\begin{array}{r} M \\ 5 \\ +4 \\ \hline 9 \end{array}$$

$$\begin{array}{r} A \\ 7 \\ +5 \\ \hline 12 \end{array}$$

$$\begin{array}{r} R \\ 12 \\ -6 \\ \hline 6 \end{array}$$

$$\begin{array}{r} I \\ 10 \\ -7 \\ \hline 3 \end{array}$$

$$\begin{array}{r} I \\ 5 \\ +3 \\ \hline 8 \end{array}$$

$$\begin{array}{r} A \\ 8 \\ +4 \\ \hline 12 \end{array}$$

$$\begin{array}{r} N \\ 9 \\ -5 \\ \hline 4 \end{array}$$

$$\begin{array}{r} M \\ 15 \\ -6 \\ \hline 9 \end{array}$$

$$\begin{array}{r} A \\ 14 \\ -2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} L \\ 2 \\ +3 \\ \hline 5 \end{array}$$

$$\begin{array}{r} L \\ 11 \\ -6 \\ \hline 5 \end{array}$$

$$\begin{array}{r} O \\ 14 \\ -7 \\ \hline 7 \end{array}$$

$$\begin{array}{r} W \\ 4 \\ +6 \\ \hline 10 \end{array}$$

$$\begin{array}{r} S \\ 10 \\ -9 \\ \hline 1 \end{array}$$

Key:

M	A	L	S	W
9	12	5	T	10
N	R	I	O	7
4	6	8	3	7



MATH ZONE
74

Addition and Subtraction: Zoo Problems

Directions: Circle the key words **in all** or **left** and write + or - in the circles. Then, solve the problems.

Kristin counted 3 large and 5 small .
How many are there **in all**?

$$3 \text{ (+) } 5 = \underline{8}$$

Cade wants a picture of 9 but 5 went underwater.
How many are **left**?

$$9 \text{ (-) } 5 = \underline{4}$$

The petting zoo has 4 . 2 are sleeping.
How many are **left** to pet?

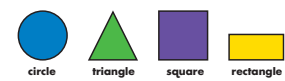
$$4 \text{ (-) } 2 = \underline{2}$$

One zoo has 6 . Another zoo has 5 .
How many **in all**?

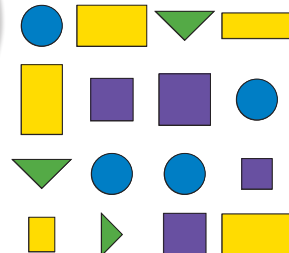
$$6 \text{ (+) } 5 = \underline{11}$$

MATH ZONE
75

Shapes and Colors



Directions: Color the circles blue. Color the triangles green. Color the squares purple. Color the rectangles yellow.

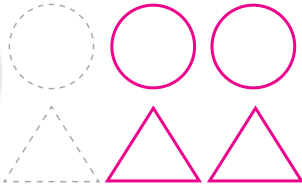


MATH ZONE
76

Shape Chef

Let's cook using your favorite shapes!

Directions: Practice tracing and drawing triangles and circles. Then, draw one triangle and one circle on the plate. Turn the shapes into foods!



Drawings will vary.



MATH ZONE
77

Classifying: Space Shapes

Directions: Look at the shapes. Use the code to color the picture.

Color Code:



black



red



orange



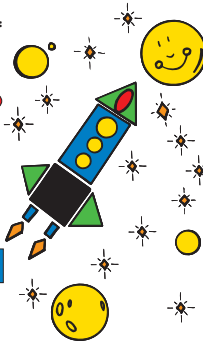
yellow



blue



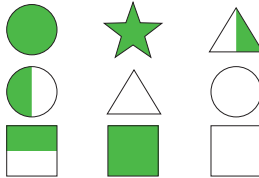
green



MATH ZONE
78

Classifying: Shapes

Directions: Look at the shapes. Answer the questions.



How many all **white** shapes? 3

How many all **green** shapes? 3

How many half **green** shapes? 3

How many all **green** stars? 1

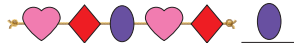
How many all **white** circles? 1

How many half **white** shapes? 3

MATH ZONE
79

Patterns

Directions: Draw what comes next in each pattern. Then, create your own pattern.



Drawings will vary.

MATH ZONE
80

Pet Patterns

Max and Emma are creating patterns with their pets. But the patterns are out of order! Can you help?

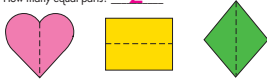
Directions: Cut out the pets at the bottom of the page. Glue the pictures to continue the pattern in each row.



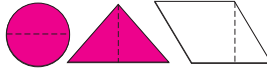
MATH ZONE
81

Fractions

How many equal parts? 2



Directions: Color the shapes with two equal parts.



MATH ZONE
83

Fractions: Thirds and Fourths

Directions: Each object has three equal parts. Color one part.



Directions: Each object has four equal parts. Color one part.



MATH ZONE
84

Cupcake Craze!

Emmo wants to share eight cupcakes with four friends. If she divides the cupcakes equally, how many will everyone have?

Directions: Draw the cupcakes on the plates to show how many each of Emmo's friends gets.



Drawings will vary.

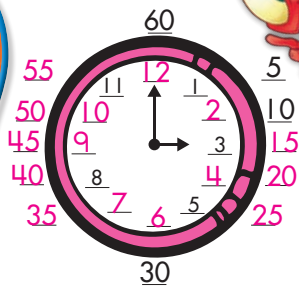


MATH ZONE
85

Monster Clock Repair

Monsters are always late because their clocks are missing numbers! Fix the clocks for the monsters.

Directions: Fill in the numbers on the clock face. Count by fives around the clock.



MATH ZONE
86

Time

The short hand of the clock tells the hour. The long hand tells how many minutes after the hour. When the minute hand is on 12, it is the beginning of the hour.

Directions: Look at each clock. Write the time.



9 o'clock



1 o'clock



8 o'clock



10 o'clock



5 o'clock



12 o'clock

MATH ZONE
87

Time: Half Hour

The little hand of the clock tells the hour. The big hand tells how many minutes after the hour. When the minute hand is on the 6, it is on the half hour. A half hour is 30 minutes. It is written :30, such as 5:30.

Directions: Look at each clock. Write the time.



4 : 30



3 : 30



8 : 30



6 : 30



10 : 30



5 : 30

MATH ZONE
88

Your Schedule

Directions: Look at the time on the clocks. Write the time. Then, draw a picture of something you do at that time.



7 : 30



12 : 00



5 : 30

MATH ZONE
89

Max's Pennies

Max is counting his pennies. A penny is worth one cent. It is written 1¢.

Directions: Count Max's pennies. How many cents?

= 3¢

= 1¢

= 8¢

= 5¢

= 9¢

= 12¢



MATH ZONE
90

Shopping Spree

Directions: Write an addition sentence for each problem. The first one is done for you.

3¢ 5¢ 1¢ 2¢ 4¢

+
1 + 3 = 4¢

+
5 + 2 = 7¢

+
4 + 1 = 5¢

+
5 + 4 = 9¢

+
5 + 1 = 6¢

+
2 + 1 = 3¢

+
4 + 2 = 6¢

+
3 + 1 = 4¢

MATH ZONE
91

Count the Change

Max and Emma want to buy ice cream. Help them count their change. A nickel is worth 5 cents. It is written 5¢.

Directions: Count the money and write the answers.

= 3¢

= 4¢

= 10¢

= 7¢

= 17¢

= 15¢



MATH ZONE
92

ANSWER ZONE

Money: Dimes

A dime is worth 10 cents. It is written 10¢.

Directions: Elephants never forget how much change they have! Draw a line from the change to the elephant with the correct number.

MATH ZONE
93

Measurement: Length and Height

Directions: Use dimes to measure each object.

MATH ZONE
94

Measurement: Length and Height

Directions: Use paper clips to measure each object.

MATH ZONE
95

Measurement: Weight

Emma is experimenting with weight. She is weighing objects she found in her lab. Help her find the heavier and lighter objects.

Directions: Circle the heavier object. The first one is done for you.

MATH ZONE
96

Measurement: Volume

Directions: Circle the object that holds more.

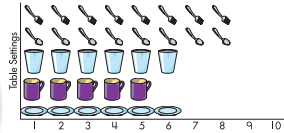
Directions: Draw something that holds more. Now, draw something that holds less.

Drawings will vary.

MATH ZONE
97

Picture Graph

Directions: Time to set the table! Use the picture graph to answer the questions.



How many in all? 5

How many more than ? 2

Circle the object that is greater than

Circle the object that is less than

Circle the object that is equal to

MATH ZONE
98

Graphing: Bar Graph

Max asked his friends which subjects they like best. He put the information in a bar graph.

Directions: Look at the bar graph. Use it to answer the questions.



How many students enjoy writing the most? 3

How many students like reading and science the most? 16

Which subject is the most popular? Reading Math

How many more students like reading than math? 2

Which subject is the least popular? Science Social Studies

MATH ZONE
99

Graphing: Your Food Chart

Directions: Make a food chart for one day. Show what you ate. Draw an X for each food you ate.

Fruit Bread/Cereal
Vegetable Other foods
Meat/Eggs/Fish

Breakfast	
Lunch	Answers will vary.
Dinner	
Snacks	

Directions: Use your food chart to answer the questions.

Answers will vary.

How many of each did you eat?

Fruit _____ Bread/Cereal _____

Vegetable _____ Other foods _____

Meat/Eggs/Fish _____

What food did you eat the most? _____

What is your favorite food? _____

MATH ZONE
100

"Hi Emma," Max called. "Look what I found in my backyard!"
"That looks like a pirate's map!" Emma said. Both children were excited.
"Let's follow it and see where it goes," Max said.
"Maybe we will find treasure!" Emma said.

Directions: Color Max and Emma.

Colors will vary.



STORY ZONE
102

"There are a lot of steps to follow," Max said.
"Let's start at the tree," Emma said. She pointed to the big tree in Max's backyard.
"Good idea," Max said. He carefully held the map.
"First, we need to take 10 steps toward the swings."

Directions: Help Max and Emma read the map. Draw the path they should take. Follow the directions below.



Start at the tree. Walk to the swing set.

Next, walk past the doghouse.

Then, turn and walk around the red table.

Walk straight down to the gate.

STORY ZONE
103

"Looks like we need to go through the gate," Max said.
 "The treasure must be in my backyard!" Emma exclaimed. They walked into Emma's yard.
 "Uh oh," Max said. "We have to cross a river!" He pointed toward the little pool for Emma's baby brother.
 "Just like real pirates!" Emma said.



Directions: Imagine Max and Emma are pirates. Draw them crossing a river.

Drawings will vary.

STORY ZONE
104

"Look!" called Emma. "X marks the spot!" She pointed to a big X drawn in the sandbox.
 "Let's start digging," Max said excitedly.
 "I found a treasure box," Max said. "And it has my name on it!"
 "I wonder what is inside?" Emma asked with a smile.



Directions: What do you think Max's treasure is? Draw it in the treasure box.



Drawings will vary.

STORY ZONE
105

"Did you like your pirate's map Max?" asked Emma.
 "Yeah! That was fun," Max said.
 "Good, maybe I will make you another one," Emma said.
 "You made the map?" Max laughed.
 "I want to make one for you first!"

Directions: Review the story. Write your answers on the lines.

Whose backyard does the map start in? Max's
 Emma's

What do Max and Emma pretend to be when they cross the pool? pirates

Who made the treasure map? Emma

Circle what happened first. digging in the sand
walk past the doghouse

Check out pages 104 and 105 in the Craft Zone if you want to make a treasure map of your own!

STORY ZONE
106

"Hi Max," Emma said. She sat next to him on the bus. "Look what I got at school today." She gave him a paper.

"There is a science fair next week?" Max asked. "That sounds cool! Are you entering?"

"Of course!" Emma said. Emma loved science. She always wore her lab coat, except when she slept.

Directions: Look at the science fair flyer. Some words are missing. Circle the correctly spelled word.



SCIENCE FAIR
 _____ May 18, 2012 Friday
 Weston Elementary School
 5 P.M.
 First _____ is a new bike! prize prise
 Science is _____ I far fun

STORY ZONE
108

"What are you going to make?" Max asked.
 "A volcano," Emma said. "We learned about them last week."
 "That sounds fun!" Max said.
 "Will you help me paint it?" Emma asked. Max was a great artist.
 "Sure," Max said. "Let's get started."

Directions: Help Max and Emma find the supplies they need. Look at the words in the box. Find and circle them in the picture.

paint empty bottle bowl
 glue newspaper



STORY ZONE
109

Max and Emma worked hard on the volcano. Emma built it. Max painted it.

"This looks good," Emma said. "It needs to dry for a day. Then, I can add the big surprise!"

"What surprise?" Max wanted to know.

"My mom is going to help me make it erupt," Emma said. "I get to make a mixture in my lab!"

Directions: Help Max and Emma finish the volcano. Color it.



Drawings will vary.

STORY ZONE
110

The day of the science fair quickly arrived. Emma was nervous, but excited. Max came, too.

Emma added the special mixture to her volcano. It erupted!

"I'm glad that worked," Emma said. "I will find out if I won tomorrow."

"Good luck, Emma!" Max said.

Directions: Finish the story. Did Emma win? Draw your ending.

Drawings will vary.

STORY ZONE
111

Directions: Review the story. Write your answers on the lines.

What is Emma's favorite school subject?
art science

What day of the week is the science fair on?
----- Friday -----

What is your favorite school subject?
-- Answers will vary. --

Name two things you need to make a volcano.
Answers may include: Paint, glue, empty bottle, newspaper, or bowl.

Want to make a volcano at home? Turn to pages 155-158 in the Science Zone to learn how!

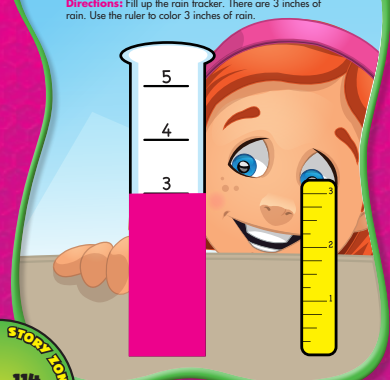
STORY ZONE
112

It was a rainy day. Max and Emma could not play outside. Emma was at home in her science lab.

"Let's see how much it has rained," Emma said. "I bet my rain tracker is almost full!"

The phone rang. "Emma! Max is on the phone," her mom called.

Directions: Fill up the rain tracker. There are 3 inches of rain. Use the ruler to color 3 inches of rain.



STORY ZONE
114

"Hi Max," Emma said.

"Hi Emma," Max said. "I put something secret in your mailbox. Go check it."


"What is it?" Emma asked.

"You will see," Max said. "Once you solve it, put it in my mailbox."

"Okay, I will check now!" Emma said. They hung up the phone. Emma grabbed an umbrella and went outside.

Directions: Color the picture.

Colors will vary.



STORY ZONE
115

Back inside, Emma opened the letter. It was written in a secret code. "Cool!" Emma said. "Max made his own code." She looked at the key. "I see, each symbol stands for a letter," she said.

"I need to check my rain tracker first," Emma said. But it had stopped raining outside.

"I have the perfect message for Max!" Emma said as she started writing.

Directions: What will Emma do after she writes the code? Draw what happens next below.



Drawings will vary.

STORY ZONE
116

"I wish we could play outside," Max sighed. He worked more on his marble painting. The phone rang. "Hello?" Max said.

"Go check your mailbox!" Emma said.

"I'll go right now," Max said. He was so excited he did not even notice the rain had stopped.

Directions: Help Max solve the code from Emma. Use the key to unlock the message.

A	B	C	D	E	F	G	H	I	J	K	L	M
⊕	⊖	⊗	⊘	⊙	⊚	⊛	⊜	⊝	⊞	⊟	⊠	⊡
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
⊛	⊜	⊝	⊞	⊟	⊠	⊡	⊢	⊣	⊤	⊥	⊦	⊧

I T S T O P P E D

R A I N I N G .

L E T ' S P L A Y

O U T S I D E !

STORY ZONE
117

Directions: Review the story. Write your answers on the lines.

What was Emma tracking?

rain

Where did Max put the code for Emma?

mailbox

What do you think Emma and Max will do next?

go to school play outside

Write your name in the secret code.

Answers will vary.

Decode jokes and riddles in the Max and Emma's code! Check out page 160.

STORY ZONE
118

Liquids and Solids

Matter is everywhere. Everything on Earth is made of matter. There are three types of matter: liquids, solids, and gases.

Directions: Read about liquids. Then, draw.

A **liquid** does not have a shape. Water is a liquid. Can you think of another liquid? Draw it.

Drawings will vary.

Directions: Read about solids. Then, draw.

A **solid** has a shape. Many things are solids, such as tables, apples, and you! Draw a solid.

Drawings will vary.

SCIENCE ZONE
120

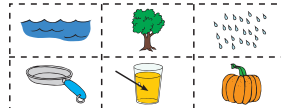
Mixed Up Matter!

Directions: Help sort the liquids and solids. Cut out the pictures below. Glue each picture in the correct box.

Liquids



Solids



SCIENCE ZONE
121

Changing Matter

Matter can change forms. Sometimes, a liquid becomes a solid, and a solid becomes a liquid. Try the simple experiment below.

What you'll need:
 * Water
 * Ice tray
 * Freezer



What to do:

1. Pour water into an ice tray. Touch the liquid.
2. Put the water in a freezer for two hours.
3. Take it out. Touch it. What does it feel like now?

The liquid became a solid.

Now...

1. Take the ice cubes outside on a warm, sunny day.
2. Leave them in the sun for two hours.
3. Now, touch the ice cubes.

The solid became a liquid.

SCIENCE ZONE
123

Gases

Have you ever poured cold water on something very hot? What happens? Steam rises off the object. The steam is a **gas**. Gas has no shape. Gases can take many shapes.

Directions: Solve the gas riddle below. Use the key to write the question and answer.

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

I SHINE IN THE
 9 19 8 9 14 5 9 14 20 8 5

SKY I AM MADE
 19 11 25 9 1 13 13 1 4 5

OF GASES
 15 6 7 1 19 5 19

What am I?

THE SUN
 20 8 5 19 21 14



SCIENCE ZONE
124

Review: Matter

Help Max and Emma learn about matter. What solids, liquids, and gases can you name?

Directions: Draw a solid, liquid, and gas below.

Solid



Liquid

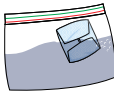
Gas

Drawings will vary.

SCIENCE ZONE
125

What to do:

1. On a paper towel, draw a square that is about 5 inches on each side. Then, cut it out.
2. Measure the baking soda and spoon it onto the paper towel. Fold the corners inward so the powder is contained in a little pouch, as shown.
3. Mix the vinegar and warm water together.
4. Pour the vinegar mixture into the sandwich bag.
5. Go outside.
6. Quickly and carefully, drop the paper towel packet into the bag. Seal it shut right away.
7. Shake the bag a bit. Then, put it on the ground and stand back for a surprise!



What happened? The bag burst.

What did you learn?

The liquid vinegar and the solid baking soda created a gas. There was too much gas in the bag, so the bag burst to let it out!

SCIENCE ZONE
127

Weather

Look outside. What is the weather like today? Practice observing the weather every day.

Directions: Draw your favorite weather. Write your favorite weather.

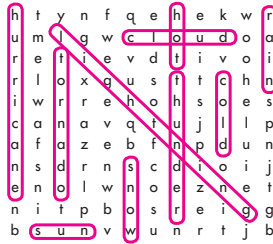
Drawings will vary.

Answers will vary.

SCIENCE ZONE
128

Weather Word Search

Directions: Look at the weather words in the box. Find them in the word search. Words can be up, down, across, or diagonal.



sun cloud thunder snow tornado
hurricane hot rain cold lightning

SCIENCE ZONE
129

Observation Chart

Directions: Use the chart below to write how much rain you measured every day.

Day of the Week	Rain Measurement	Draw the Weather Today
Sunday		
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		

Answers will vary.

SCIENCE ZONE
131

Weather: Clouds

There are three types of clouds: Cirrus, Cumulus, and Stratus. Each cloud is different. Read about the clouds below and follow the directions.

Cirrus clouds are high in the sky. They are white and feathery and contain ice crystals.

Directions: Paint white streaks below. Sprinkle glitter on the wet paint. The glitter represents the ice crystals.

Cumulus clouds are low in the sky. They are puffy and white, like cotton balls.

Directions: Glue different sized cotton balls below.

Pictures will vary.

Stratus clouds are low in the sky. They are wide, often gray, and bring snow and rain.

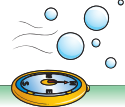
Directions: Glue dryer lint or gray flannel below.

SCIENCE ZONE
132

Weather: Wind Direction

Use bubbles to find out which direction the wind is blowing. See page 50 for a quick and easy bubble recipe!

What you'll need:
• Bubble solution (pg. 50)
• Large plastic container
• Compass
• Bubble wand
• An adult



What to do:

1. Pour the bubble solution into a large plastic container.
2. Go outside with an adult.
3. Have an adult help you use a compass. Find north, south, east, and west.
4. Blow some bubbles with the bubble wand.
5. Watch to see which direction the wind blows the bubbles.

Directions: Circle the direction the bubbles went.

north south east west

Answers will vary.

Directions: Circle the direction the wind is blowing.

north south east west

SCIENCE ZONE
133

Four Seasons

Directions: Draw a line to match each picture to the correct season. Fill in the missing letter in each season. Use the words in the box to help you.

spring summer winter autumn



s p r i n g



w i n t e r



s u m m e r



a u t u m n

SCIENCE ZONE
134

ANSWER ZONE
241

Favorite Season

Directions: Draw your favorite season below. Draw yourself dressed for that season in the picture.

Drawings will vary.

SCIENCE ZONE
135

Leafy Chart

Directions: Use the chart below to compare and contrast the leaves you found. Glue one leaf in each box. Then, fill in your observations about each leaf.

The Leaf	Color	Size

Answers will vary.



SCIENCE ZONE
137

The Sun

Directions: Read about the Sun. Then, complete the crossword puzzle on page 139.

The Sun is a star. It is the center of our solar system. The planets travel around the Sun. The Sun is made up of gases. Hydrogen makes up most of the Sun, but it also contains a lot of helium.



The Sun makes its own light. The Sun shines and makes plants grow. Even if we cannot see the Sun through clouds, it is there!

The Sun also gives off heat. It keeps us warm. It is the nearest star to Earth. We could not live without the Sun.

Directions: Unscramble the words below. Then, fill in the blanks.

astr asgse nrow

The Sun is a star.

The Sun is made of gases.

The Sun keeps us warm.

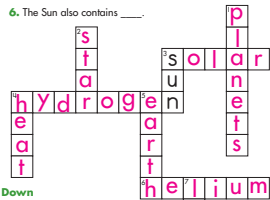
SCIENCE ZONE
138

Sunny Crossword

Directions: Complete the puzzle. Use page 138 to help. One is done for you.

Across

- 3. The Sun is the center of the _____ system.
- 4. The Sun is mostly made of _____.
- 6. The Sun also contains _____.



Down

- 1. The _____ travel around the Sun.
- 2. The Sun is a _____.
- 3. We could not live without the _____.
- 4. The Sun gives off _____.
- 5. The Sun is the nearest star to _____.
- 7. The Sun makes its own _____.

SCIENCE ZONE
139

Circle the bottle that had the warmest water.



Black absorbs the most energy from the sun. If Emma's toy car needs sunlight to run, what color should it be?

Directions: Draw the car below. Color it the correct color.

Drawings will vary.



SCIENCE ZONE
141

The Moon

Max is pretending he is going to the moon! First, he reads about three important surfaces of the moon.

Directions: Read about the moon with Max.

Earth has one moon. You can see the moon in the sky. The moon travels around Earth. It is closer to Earth than the Sun or planets. But the moon is much smaller than Earth.

The surface of the moon has many deep holes called **craters**. It has flat areas called **maria** and rocky mountain areas called **highlands**. The moon has no air, water, or life.



Directions: Draw the surface of the moon. Then, draw Max on the moon!

Drawings will vary.

SCIENCE ZONE
142

Moon Code

Max is pretending to fly through the solar system. He wants to visit more moons.

Directions: Use the code to discover the names of some moons in our solar system.

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

First, he sees Jupiter's moon named $\begin{matrix} \text{I} & \text{O} \\ \text{9} & \text{15} \end{matrix}$. It has at least eight active volcanoes.

PHOBOS travels around Mars in $7\frac{1}{2}$ hours. No other moon travels so fast!

Next, he goes to the largest moon in the solar system.

It is named $\begin{matrix} \text{G} & \text{A} & \text{N} & \text{Y} & \text{M} & \text{E} & \text{D} & \text{E} \\ \text{7} & \text{1} & \text{14} & \text{25} & \text{13} & \text{5} & \text{4} & \text{5} \end{matrix}$. It orbits Jupiter.



SCIENCE ZONE
143

Earth

Earth is the only planet that has plants, animals, and human beings living on it. Most of the planet is covered with water. The rest is land.

Directions: Color the water blue. Color the land green.



SCIENCE ZONE
144

Earth

Directions: Read about Earth. Some words are missing. Use the words from the word bank to complete the paragraph.

Sun closer soil Earth

The third planet from the **Sun** is our planet Earth. Earth is at the right distance from the Sun to have the liquid water necessary to support life. Mercury and Venus are too hot because they are **closer** to the Sun. The other planets are too far from the Sun.

Earth has a lot of water. Most living things need water. Water helps to control Earth's weather and climate. Water also breaks rock into **soil** which plants need to grow.

Earth is a special planet!

SCIENCE ZONE
145

What to do:

1. Select one marshmallow. The marshmallow will represent the **mantle**.
2. Put a hazelnut or piece of hard candy into the center of the marshmallow. What layer does the hazelnut represent?



core

3. Then, dip the marshmallow into melted chocolate. This represents Earth's **crust**.
4. Enjoy your snack!
5. Make more for your family and friends. Teach them about Earth's layers.

Directions: Draw the three layers of Earth below.



Drawings will vary.

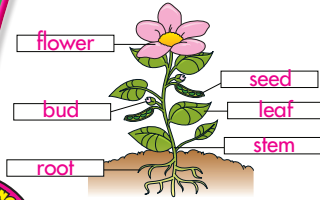
SCIENCE ZONE
147

Parts of a Plant

Directions: Read the passage. Label the parts of a plant. Use the word bank to help you.

All plants begin from **seeds**. The **roots** are in the ground and suck up water. The plant's **stem** is above the ground. **Leaves** grow off of the stem. Sometimes, a plant has a **flower** on top of the stem. **Buds** are small flowers that have not finished growing yet. Most plants need water and sunlight to survive.

bud flower stem
leaf seed root



SCIENCE ZONE
148

Animal Habitats

A **habitat** is an animal's natural home. Many animals live on land and others live in water. Most animals that live in water breathe with gills. Animals that live on land breathe with lungs.

Directions: Draw each animal below water or land to tell where it lives.

Water

Land



SCIENCE ZONE
150

Draw the Habitat

Directions: Draw the correct habitat for each animal below.



Drawings will vary.



SCIENCE ZONE
151

What to do:

1. Pour water into the mixing bowl, mix in salt. Stir until the salt is dissolved.
2. Carefully, place the cup or small bowl into the mixing bowl. Don't let any salt water get in it!
3. Cover the mixing bowl with plastic wrap, seal it tight.
4. Find a small rock. Place the rock in the middle of the plastic wrap, as shown. The plastic will slightly slant toward the middle where the cup is.
5. On a sunny day, put the mixing bowl outside. Soon, you will see water droplets form under the plastic and drip into the cup.
6. Wait three hours, then take the plastic off.
7. Taste the water in the cup!



Do you taste salt? **Answers will vary.**

What Happened?
The heat made the water vaporize (turn into a gas). The gas turned back into its liquid state. Then, it fell into the cup, leaving the salt behind.

SCIENCE ZONE
153

Volcanoes

Max and Emma are studying volcanoes in school. Emma wants to make a volcano for her science fair project.

Directions: Max is asking Emma about volcanoes. Help Emma answer. Read about volcanoes and answer the questions.

Volcanoes are mountains that have an opening at the top. The inside of a volcano is very hot. The liquid rock inside a volcano is called **magma**. When a volcano erupts, it sends rocks and magma flying out of it. The rock and magma coming out of a volcano is called **lava**.



The inside of a volcano is very **hot**.

Liquid rock is called **magma**.

Directions: Draw a volcano below. Name the different parts.

Drawings will vary.

SCIENCE ZONE
154

ANSWER ZONE

244

Paper Mâché Volcano

This is everyone's favorite part!
Ask an adult to help you carefully follow the instructions below to create an exciting eruption.

1. Pour baking soda into the bottle inside the volcano. The bottle represents the lava chamber (fill up about a fourth of the bottle).
2. Pour vinegar into a regular drinking glass.
3. Mix red food coloring with the vinegar (optional: you can also add a little starch to the vinegar).
4. Slowly, pour the vinegar mixture into the bottle. The vinegar will react with the baking soda to create an eruption!

Observe your volcano's eruption! Draw it below.

Drawings will vary.

Read "Emma Enters the Science Fair" on Page 107 in the Story Zone!

SCIENCE ZONE
158

Crack The Code

Directions: Use Max and Emma's secret code to discover a silly but true fact.

A	B	C	D	E	F	G	H	I	J	K	L	M
◇	◁	▷	≡	≡	≡	≡	≡	≡	≡	≡	≡	≡
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
◁	▷	◁	▷	◁	▷	◁	▷	◁	▷	◁	▷	◁

A S N A I L
CAN S L E E P
FOR T H R E E
Y E A R S!

GAME ZONE
160

Word Search

Directions: Find the out-of-this-world space words from the word box. Words can be across, down, or diagonal.

c s t b n o j r p i
z h c s k l e s k d
x i g p w s u h n v
t p l a n e t a e s
o u y c l m n a d a f
r a a e c i h e r o
b w e c s r e j t s
i e u r s l k n h u
t v r l w d g f a l
c x g m a r s n r a



space alien ship
orbit earth planet
skies stars mars

GAME ZONE
161

Maze

Directions: Find your way through the monkey maze. Draw a line through the maze.



GAME ZONE
162

Picture Puzzle

Directions: Cut out the pieces and mix them up. Then, see how fast you can put them back together.



GAME ZONE
163

ANSWER ZONE
245

Tic-Tac-Toe

Directions: Play with a friend. Take turns writing Xs and Os. Three in a row wins the game!

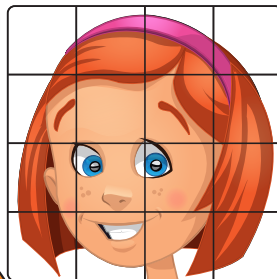
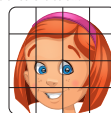


GAME ZONE
165

Grid Art

Learn how to draw Emma! Follow the directions below.

Directions: Finish drawing the picture by using the grid as a guide. Then, color it.



GAME ZONE
166

Hidden Picture

Directions: There are six things hidden in Max's backyard. Find and circle them.

- butterfly
- apple
- beach ball
- baseball bat
- frog
- turtle



GAME ZONE
167

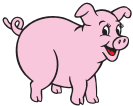
Crack The Code

Directions: Use Max and Emma's secret code to unlock the answer to a joke.

How do you take a sick pig to the hospital?

A	B	C	D	E	F	G	H	I	J	K	L	M
◇	⊙	<	∞	∞	<	∞	∞	∞	∞	∞	∞	∞
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞

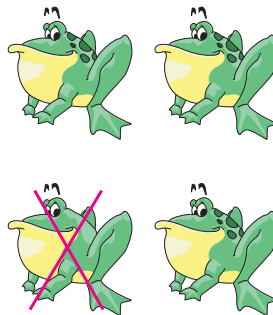
I N A
H A M B U L A N C E !



GAME ZONE
168

Which Is Different?

Directions: Look at the frogs below. One is different from the others. Draw an X on the frog that is different.



GAME ZONE
169

Hidden Picture

Directions: There are eight things hidden in the gumballs. Find and circle them.

- beach ball
- grape
- yellow flower
- seashell
- soccer ball
- half a lime
- mouse
- lemon



GAME ZONE
170

Sudoku

Directions: Complete the Sudoku puzzle. Every row and column must contain the numbers 1, 2, 3, and 4. Do not repeat the same number twice in any row or column.

2	1	4	3
4	3	1	2
1	2	3	4
3	4	2	1

GAME ZONE
171

Word Scramble

Directions: Look at the pictures and words. The words are all scrambled up! Write the words correctly on the lines.

-  rutkc --- truck ---
-  ynra --- yarn ---
-  frgjafe --- giraffe ---
-  likm --- milk ---
-  aifg --- flag ---

GAME ZONE
172

Matching Max

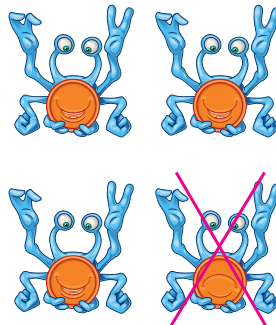
Directions: Find and circle the two pictures of Max that are exactly alike.



GAME ZONE
173

Which Is Different?

Directions: Look at the aliens below. One is different from the others. Draw an X on the alien that is different.



GAME ZONE
174

Crack The Code

Directions: Use Max and Emma's secret code to discover a silly but true fact.

A	B	C	D	E	F	G	H	I	J	K	L	M
◇	⊙	<	>	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈

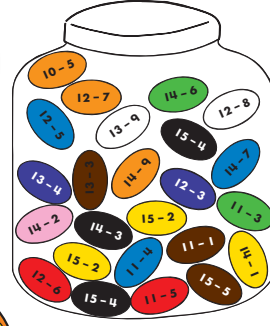
STARFISH
CAN GROW
NEW ARMS.

GAMEZONE
175

Color Code

Directions: Subtract to find the answers. Use the code to color the jellybeans.

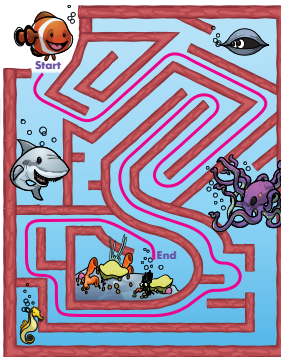
Color Code:
4 = orange 7 = blue 10 = brown 13 = yellow
5 = orange 8 = green 11 = black
6 = red 9 = purple 12 = pink



GAMEZONE
176

Maze

Directions: Find your way through the undersea maze. Draw a line through the maze.



GAMEZONE
177

Crack The Code

Directions: Use Max and Emma's secret code to unlock the answer to a joke.

What did one eye say to the other?

A	B	C	D	E	F	G	H	I	J	K	L	M
◇	⊙	<	>	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈

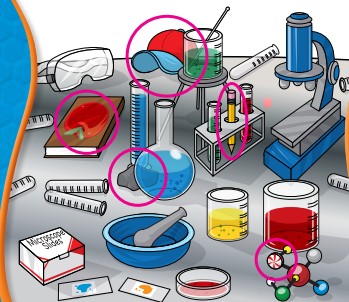
BETWEEN YOU
AND ME,
SOMETHING
SMELLS.

GAMEZONE
178

Hidden Picture

Directions: There are five things hidden in Emma's lab. Find and circle them.

pencil apple hat candy rock



GAMEZONE
179

ANSWER ZONE

Number Word Search

Directions: Find the hidden numbers from the box below. They may be hidden across or down.

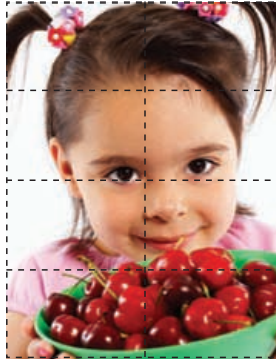
16177	33899	46437
37269	16396	77468
89448	97987	76373

4	6	4	3	7	1	6	3	9	6
1	3	2	5	7	8	2	6	4	1
0	3	5	1	4	2	3	9	0	8
4	8	7	1	6	1	7	7	6	2
2	9	1	7	8	3	2	8	5	7
5	9	4	9	0	2	6	1	4	6
3	1	7	3	9	7	9	8	7	3
5	2	0	2	1	4	2	6	3	7
7	8	9	4	4	8	3	4	5	3
0	4	1	6	2	3	9	2	7	1

GAMEZONE
180

Picture Puzzle

Directions: Cut out the pieces and mix them up. Then, see how fast you can put them back together.

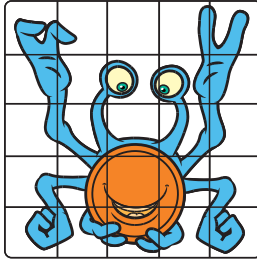
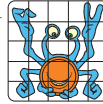


GAMEZONE
181

Grid Art

Learn how to draw an alien! Follow the directions below.

Directions: Finish drawing the picture by using the grid as a guide. Then, color it.



GAMEZONE
183

Shape Sudoku

Directions: Complete the Sudoku puzzle. Every row and column must contain a triangle, square, circle, and heart. Do not repeat the same shape twice in any row or column.

Circle	Heart	Triangle	Square
Square	Triangle	Circle	Heart
Heart	Circle	Square	Triangle
Triangle	Square	Heart	Circle

GAMEZONE
184

Which Is Different?

Directions: Look at the sundae below. One is different from the others. Draw an X on the sundae that is different.



GAMEZONE
185

Word Scramble

Directions: Look at the pictures and words. The words are all scrambled up! Write the words correctly on the lines.



GAME ZONE
186

Riddles

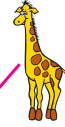
Max wrote some riddles for Emma. Help Emma solve the riddles.

Directions: Draw a line from the riddle to the answer.

I am very big.
I lived a long, long time ago.
What am I?

My neck is very long.
I eat leaves from trees.
What am I?

I have long ears.
I hop very fast.
What am I?

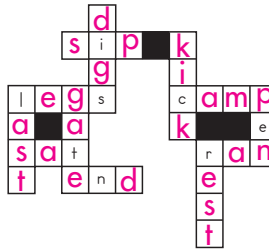


GAME ZONE
187

Crossword Puzzle

Directions: Finish writing the words from the word box in the puzzle below.

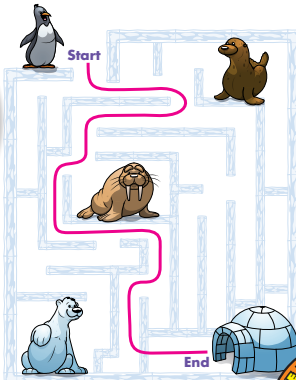
ran	last	legs	digs
gate	camp	rest	sip
sat	pen	end	kick



GAME ZONE
188

Maze

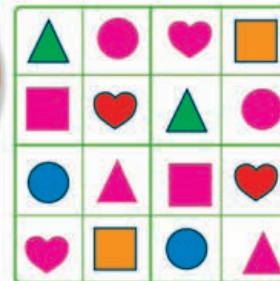
Directions: Help the penguin to the igloo. Draw a line through the maze.



GAME ZONE
189

Shape Sudoku

Directions: Complete the Sudoku puzzle. Every row and column must contain a square, circle, triangle, and heart. Do not repeat the same shape twice in any row or column.



GAME ZONE
190

Picture Puzzle

Directions: Cut out the pieces and mix them up. Then, see how fast you can put them back together.



GAMEZONE
191

Word Search

Directions: Find the out-of-this-world space words from the word box. Words can be across or down.

o	i	t	w	e	m	c	v	j	k
g	a	l	a	x	y	l	o	l	p
s	b	c	g	p	c	t	m	a	n
n	k	s	p	e	e	d	c	s	s
w	v	l	b	r	o	c	k	e	t
u	f	o	u	i	q	w	r	r	a
e	k	z	t	m	e	t	e	o	r
t	a	x	x	e	n	c	u	j	g
q	j	f	g	n	p	b	n	l	r
l	i	g	h	t	e	t	t	w	s



experiment
galaxy
laser
star

speed
rocket
light
meteor

Try the experiment on pages 146 and 147 in the Science Zone!

GAMEZONE
193

Matching Emma

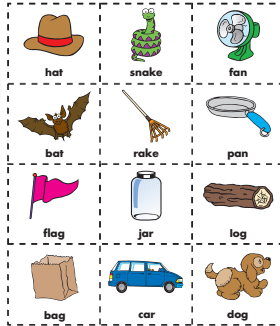
Directions: Find and circle the two pictures of Emma that are exactly alike.



GAMEZONE
194

Matching Game

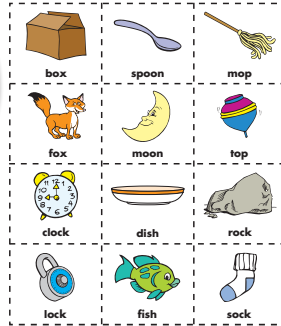
Directions: Cut out the cards below and on page 197. Mix up the cards and place them facedown. Turn two cards over, one at a time. Try to match two rhyming words together. If no match is made, flip both cards back down. Continue flipping and matching until all the cards are paired.



GAMEZONE
195

Matching Game

Directions: Cut out the cards below and on page 195. Mix up the cards and place them facedown. Turn two cards over, one at a time. Try to match two rhyming words together. If no match is made, flip both cards back down. Continue flipping and matching until all the cards are paired.

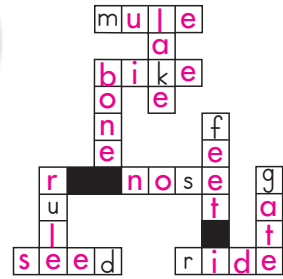


GAMEZONE
197

Crossword Puzzle

Directions: Finish writing the words from the word box in the puzzle below.

bike	lake	feet	seed
ride	mule	bone	
gate	nose	rule	

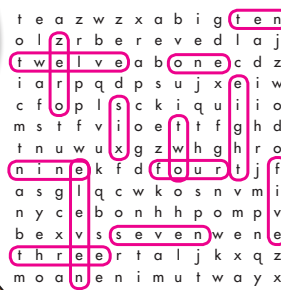


GAME ZONE
199

Number Word Search

Directions: Find the number words zero through twelve hidden in the box. Words can be across or down.

zero	three	six	nine	twelve
one	four	seven	ten	
two	five	eight	eleven	

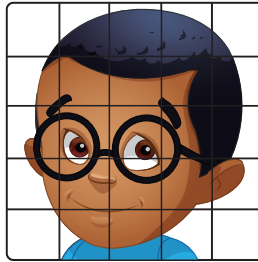
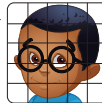


GAME ZONE
200

Grid Art

Learn how to draw Max! Follow the directions below.

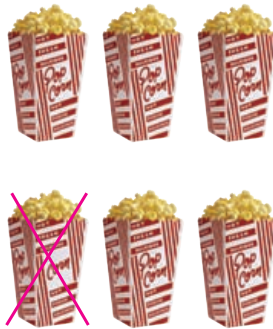
Directions: Finish drawing the picture by using the grid as a guide. Then, color it.



GAME ZONE
201

Which Is Different?

Directions: Look at the pictures below. One is different from the others. Draw an X on the picture that is different.



GAME ZONE
202

Max and Emma Go to the Fair

Directions: Fill in the nouns, adjectives, and verbs below. Then, write them in the story to create your own fun and silly Max and Emma adventure.



Noun (person, place, or thing) _____

Verb (action word) _____

Adjective (describing word) _____

Adjective (describing word) _____

Answers will vary.

Max and Emma are at the fair. First, they go see the _____ Max is so excited he _____ the whole way there! Emma stops to buy a _____ cotton candy. They love coming to the _____ fair.

GAME ZONE
203

Crack The Code

Directions: Use Max and Emma's secret code to unlock the answer to a joke.

Who is bigger, Mr. Bigger or Mr. Bigger's baby?

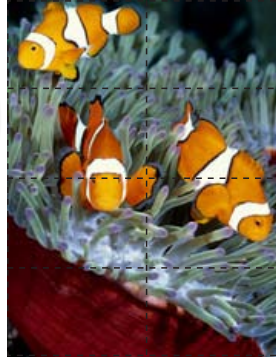
A	B	C	D	E	F	G	H	I	J	K	L	M
◇	⊕	<	>	≡	≡	<	≡	>	≡	≡	≡	≡
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
≡	≡	≡	≡	≡	≡	≡	≡	≡	≡	≡	≡	≡

THE BABY
BECAUSE HE
IS A LITTLE
BIGGER.

GAMEZONE
204

Picture Puzzle

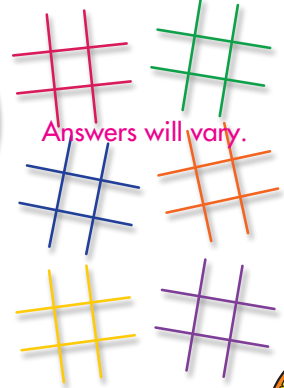
Directions: Cut out the pieces and mix them up. Then, see how fast you can put them back together.



GAMEZONE
205

Tic-Tac-Toe

Directions: Play with a friend. Take turns writing Xs and Os. Three in a row wins the game!



Answers will vary.

GAMEZONE
207

Sudoku

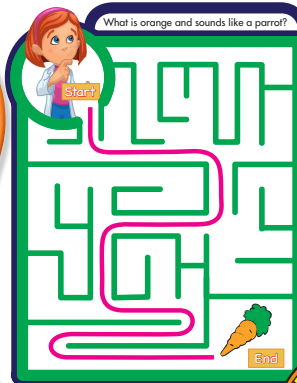
Directions: Complete the Sudoku puzzle. Every row and column must contain the numbers 5, 6, 7, and 8. Do not repeat the same number twice in any row or column.

5	6	8	7
7	8	6	5
8	5	7	6
6	7	5	8

GAMEZONE
208

Maze

Directions: Help Emma answer a riddle. Draw a line through the maze to find the answer.



What is orange and sounds like a parrot?

GAMEZONE
209

Crossword Puzzle: Opposites

Directions: Read each clue. Write the answers in the puzzle. Use the word box to help you.

h	i	g	h
e			
a			
v			
y	e	s	
	a		
	f	u	l
	e		
		f	
		t	i
		g	h
		t	i
		g	h

Across

- 1. opposite of low
- 2. opposite of no
- 4. opposite of empty
- 6. opposite of loose

Down

- 1. opposite of light
- 3. opposite of dangerous
- 5. opposite of right

high	safe	left	full
heavy	yes	tight	

GAME ZONE
210

Hidden Picture

Directions: There are eight things hidden in the jellybeans. Find and circle them.

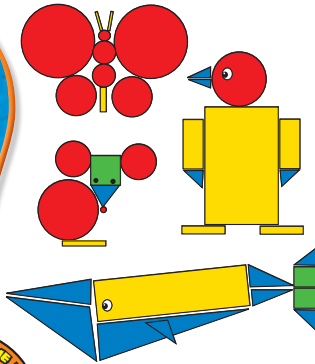
orange	pencil sharpener	tennis ball
cherry	pink bow	blue marble
cookie	strawberry	



GAME ZONE
211

Color Code: Shapes

Directions: Color the squares green, rectangles yellow, circles red, and triangles blue.



GAME ZONE
212

Reveal Hidden Picture

Directions: Color all of the vowels a, e, i, o, and u black to discover something hidden in the puzzle.

j	g	w	d	q	n	j	c	g	c	b
k	g	m	b	j	h	c	w	l	d	s
r	c	z	l	p	q	s	b	k	n	z
g	k	w	x	d	a	f	l	x	q	k
v	r	f	j	p	g	n	f	s	b	
d	n	v	m	h	b	s	f			
l	z	k	m	w	z					
q	h	r	c	c	b					
t	x	b	h	d	v	r	l			
c	h	f	s	j	f	k	j	v		
n	m	d	t	g	t	j	m	x	h	
t	p	g	c	v	h	n	g	d	p	r
l	h	k	q	f	r	s	j	t	g	v

GAME ZONE
213

Crossword

Directions: Finish writing the words from the word box in the puzzle below.

cat	pop	song	zoo
fag	fan	pear	lan
car	pig	hop	blue

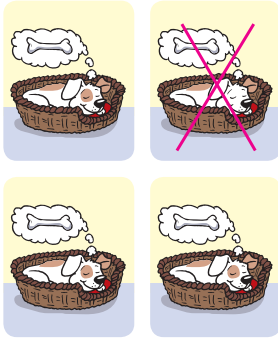
		p	o	p		
b	l	u	e		i	
		a		g		
c	a	r			f	a
a				z	o	o
t	a	n				g
			h			
		s	o	n	g	
			p			

GAME ZONE
214

ANSWER ZONE

Which Is Different?

Directions: Look at the dogs below. One is different from the others. Draw an **X** on the dog that is different.



GAMEZONE
215

Crack The Code

Directions: Use Max and Emma's secret code to discover a silly but true fact.

A	B	C	D	E	F	G	H	I	J	K	L	M
◊	⊕	<	>	≡	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖

B A T S A L W A Y S
 T U R N L E F T
 W H E N L E A V I N G
 A C A V E



GAMEZONE
217

Emma's New Pet

Directions: Fill in the nouns, adjectives, and verbs below. Then, write them in the story to create your own fun and silly Max and Emma adventure.

Noun (animal) _____

Adjective (describing word) _____

Verb (action word) _____

Noun (thing) _____

Answers will vary.

Emma has a new pet. It is a _____ **noun**.

Max is playing with it, too. He thinks it is very _____

_____ **adjective**. Emma _____ **verb + s** with

her new pet. She gives it a new _____ **noun**.

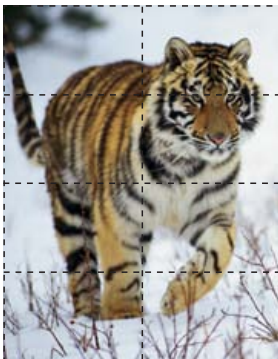
Now, it just needs a name.

What should Emma name her pet?

GAMEZONE
218

Picture Puzzle

Directions: Cut out the pieces and mix them up. Then, see how fast you can put them back together.



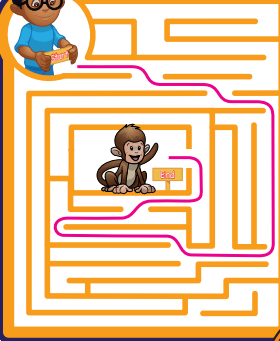
GAMEZONE
219

Maze

Directions: Help Max answer a riddle. Draw a line through the maze to find the answer.



What kind of key will not open a door?



GAMEZONE
221

ANSWER ZONE
255

Hidden Picture

Directions: There are eight things hidden in the picture. Find and circle them.

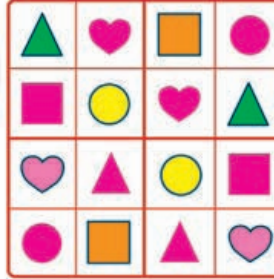
- | | | | |
|--------|------|--------|-------------|
| bow | lime | marble | soccer ball |
| flower | lock | pepper | tennis ball |



GAME ZONE
222

Shape Sudoku

Directions: Complete the Sudoku puzzle. Every row and column must contain a and . Do not repeat the same shape twice in any row or column.



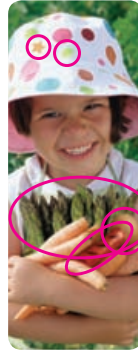
GAME ZONE
223

What Is Different?

Directions: Look at the two pictures. There are five things different in **Picture 2**. Find and circle them.

Picture 1

Picture 2

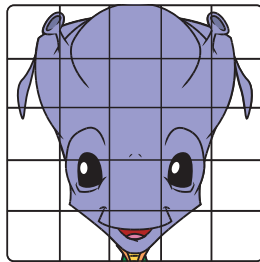
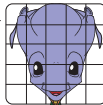


GAME ZONE
224

Grid Art

Learn how to draw an alien! Follow the directions below.

Directions: Finish drawing the picture by using the grid as a guide. Then, color it.



GAME ZONE
225

Create Your Own Message

Max and Emma want you to write a secret message! Give your message to a friend.

Directions: Use Max and Emma's code key to create your own secret message in the space below.

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z

Answers will vary.

GAME ZONE
226

ANSWER ZONE

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SCIE
FA



SCIENCE FAIR



In Story Zone, Max helps Emma create a science fair project. Imagine you are entering the science fair with Emma. Draw your own science fair project and tell your friends what it does. Ask an adult to help you hang up your creative poster when you are finished!

**Creative
Kids
Zone**