

Summer Reading Curiosity Card

Super Strength Science Trick: The Leak Proof Bag

Materials:

Sharpened pencils
Zipper-lock plastic bag
Water
Paper Towels

**Directions:**

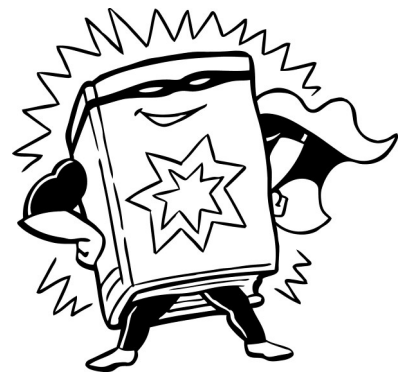
1. Sharpen your pencils
2. Fill a zipper-lock bag between $\frac{1}{2}$ and $\frac{3}{4}$ full with water.
3. Hold the pencil in one hand and the top of the bag in the other. Slowly, but firmly push one of the sharpened pencils through one side of the bag.
4. Push the pencil through the other side of the bag.

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Summer Reading Curiosity Card

Color Changing Milk Experiment

Materials:

Milk (whole or 2%)
Dinner Plate
Food Coloring (red, yellow, green, blue)
Dishwashing soap



Directions:

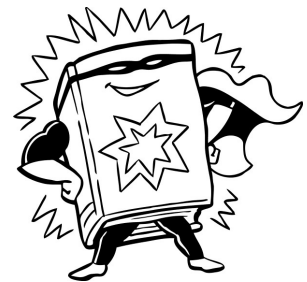
1. Pour enough milk in the dinner plate to completely cover the bottom to the depth of $\frac{1}{4}$ inches.
2. Add one drop of each of the four colors of food colors to the milk. Keep the drops close together in the center of the plate.
3. Now place a clean cotton swab gently and touch the tip of the cotton swab in the middle of the milk, being careful not to stir the milk. What happens?
4. Now place a drop of liquid dish soap on the other end of the cotton swab. Place the soapy end of the cotton swab back in the middle of the milk and hold it there for 10-15 seconds. Now what happens?
5. Add another drop of soap to the tip of the cotton swab and try it again. What happens when you put the cotton swab at different places in the milk?

Summer Reading Curiosity Card

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Dishwashing soap



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Summer Reading Curiosity Card


Fun with Planes

Materials:

2 Paper airplanes
Pencil
Recording sheet

Directions:

1. Make 2 paper airplanes.
2. Send your paper airplanes flying.
3. Measure the distance traveled for each flight by counting the number of steps you take to reach it and record it for each airplane.
4. Was there a plane that flew better?

	Plane 1	Plane 2
	# of Steps	# of Steps
Flight 1		
Flight 2		
Flight 3		
Flight 4		
Flight 5		

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Summer Reading Curiosity Card
I Spy with My Little Eye....



tree:



flower:



rock:



bird:



car:



stop sign:



bike:



plant:



sun:

Directions:

1. Go on a nature walk and start your scavenger hunt.
2. Put a tally mark in the chart whenever you see something on the chart.
3. At the end of your walk, count your tally marks and write the total in the box below the picture.

Summer Reading Curiosity Card
I Spy with My Little Eye....



tree:



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Summer Reading Curiosity Card

Map It!

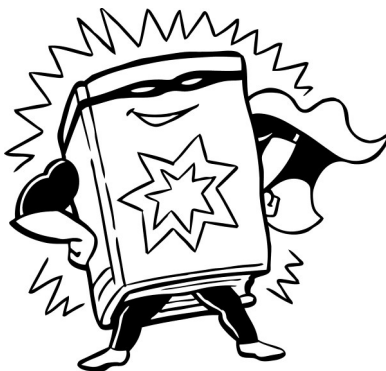


Directions:

Draw a map of your bedroom, house, or park. Which things on your map should be the biggest or the smallest? How close together should everything be? How many windows, steps, or slides should there be? Try to remember as many details as you can. Feel free to write descriptions, too!

Summer Reading Curiosity Card

Map It!



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Draw a map of your bedroom, house, or park. Which things on your map should be the biggest or the smallest? How close together should everything be? How many windows, steps, or slides should there be? Try to remember as many details as you can. Feel free to write descriptions, too!

Summer Reading Curiosity Card

Earthquake Towers

Architects are people who build buildings and other structures. To make sure their designs are safe, they have to test them. One of the things they test for, is to see if their structures are strong enough to survive earthquakes. Follow the steps below to see if you can develop your own earthquake-proof designs!

Materials:

Building supplies (Legos or empty boxes make great building supplies!)

Something to hold your supplies together if you're not using Legos (glue, twist ties, string, rubber bands, or paperclips would work)

Directions:

1. Find a flat surface to build on.
2. Build your towers. Make sure your towers are attached to the platform.
3. Test your designs! Start by shaking the platform gently from side to side. If your towers don't fall, shake harder until they do.
4. Which towers stood the longest? How tall were they? How were they shaped? Which materials held up best?
5. Start again! Keep designing until you are satisfied with the safety of your model.

Summer Reading Curiosity Card

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Summer Reading Program Superhero Hideout!

Directions:

1. Get some graph paper (ask the librarians at the Children's desk, if you don't have any at home)
2. Decide on a scale. For example: 1 square = 1 foot or 1 square = 3 feet
3. Dream up a location: Underwater? Volcano? Remote mountain cave? The sky's the limit!
4. What kind of hideout will it be? Does your superhero work solo, or will there be multiple work spaces? Is it a chemistry lab? An engineer's paradise? Just a cool place to relax? It's up to you!
5. Start designing your perfect space.

Superhero hideouts not your thing? Try an amusement park or dream bedroom instead.

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Summer Reading Curiosity Card

Make Your Own Kazoo

Materials:

Cardboard toilet paper or paper towel roll
Wax paper
Rubber band
Sharpened pencil

Steps:

1. Find an empty cardboard toilet paper or paper towel roll.
2. Cover one end of the roll with wax paper, and secure it with a rubber band.
3. Poke a hole in the cardboard roll using a sharpened pencil or similar (ask for an adult's help if you need it!)
4. Hold the open end of the cardboard roll to your mouth. Hum or say "do" over and over to make a kazoo sound (this part might take practice).
5. Optional: Paint and decorate your kazoo!



Summer Reading Curiosity Card

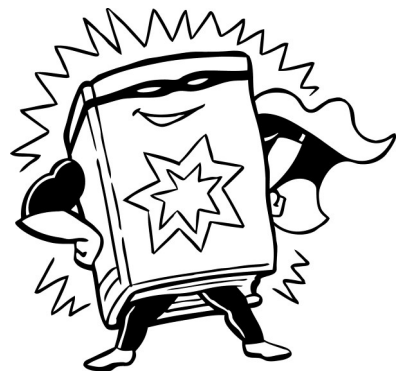
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Summer Reading Curiosity Card

Building Challenge: Build Your Own House!

Materials:

- 2 Sheets of paper
- 2 Band-Aids
- 2 Paperclips
- 2 Sticks of gum

**Directions:**

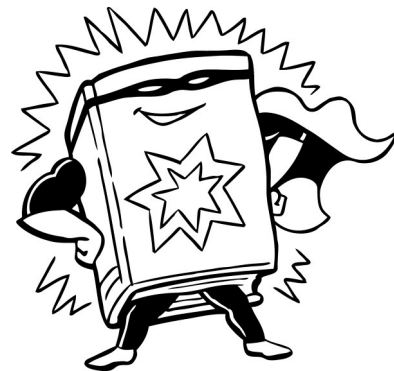
Build a house using ONLY the materials listed above.

Summer Reading Curiosity Card

Building Challenge: Build Your Own House!

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- 2 Sheets of paper
- 2 Band-Aids
- 2 Paperclips
- 2 Sticks of gum

**Directions:**

Build a house using ONLY the materials listed above.

Summer Reading Curiosity Card

Building Challenge: Build Your Own Catapult!

Materials:

1 Spoon

2-4 Rubber bands

Handful of paperclips



Directions:

Build your very own catapult using ONLY the materials listed above. Happy launching!

Summer Reading Curiosity Card

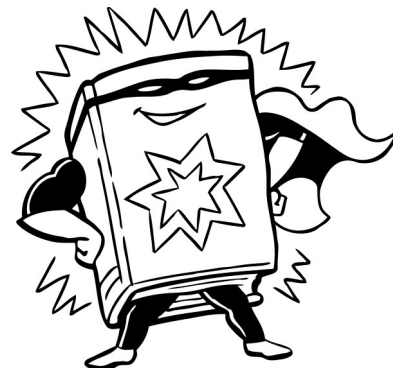
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Summer Reading Curiosity Card

Weather Watch!

Days of the Week	Weather Conditions	Types of Clouds Seen
Sunday		
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		

Directions:

For one week, each day watch the sky. Using the table, keep track of weather conditions and the types of clouds

Summer Reading Curiosity Card

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Summer Reading Curiosity Card

How Much Does It Weigh?

Item	Item's weight	How many bags of flour?	How many bags of sugar?
Lion	420 lbs.		
Semi-Truck	80,000 lbs.		
Elephant	11,000 lbs.		
Cow	1,500 lbs.		
Bicycle	15 lbs.		
School Bus	10,000 lbs.		
Canoe	45 lbs.		

Directions:

A bag of flour weighs 10 lbs. and a bag of sugar weighs 5 lbs. How many bags of each make up the weight of these objects?

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Summer Reading Curiosity Card

Duck Pond

Materials:

Several yellow pom-poms (ducks)
1 Sheet of blue construction paper (lake)

Directions:

Give each child several yellow pom-poms (ducks) and a sheet of blue paper (lake). Recite the rhyme shown, encouraging youngsters to add the corresponding sets of ducks to their lakes. Then have students count the sets and name the total. Repeat the activity several times, changing the numbers as desired.

There were [five] little ducks on the lake one day.

[Three] more ducks came to splash and play.

How many ducks were on that lake?

What number does [five] plus [three] make?

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Summer Reading Curiosity Card

Water Play

Materials:

Plastic tub
Containers of various sizes
Water

**Directions:**

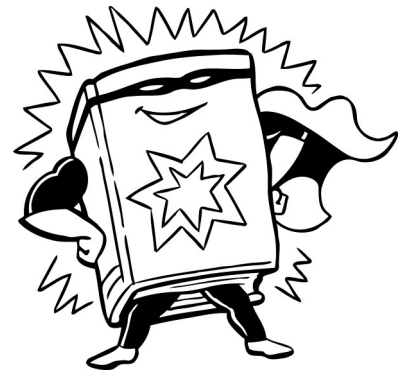
Children love playing in water, and measurement is a math skill that can be understood using a tub of water and old plastic containers found around the house. Fill a plastic tub half-full of water. Give your child any available plastic containers. Let your child experiment with how much water each container holds. Will this big container hold as much water as 2 small containers? 3 small containers? How many medium-sized containers does it take to fill a big container? Which container holds the most water?

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Summer Reading Curiosity Card

Coin Guessing Game

Materials:

Various coins



Directions:

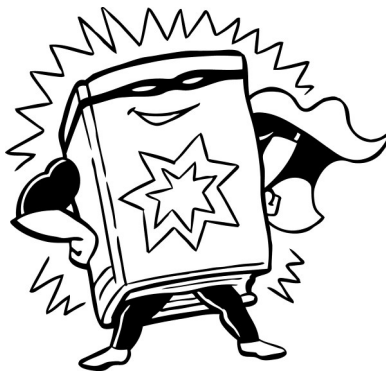
Place some coins in your pocket. Tell your child, “I have three coins in my pocket which add to \$.20- what might the coins be? I have five coins in my pocket which add to \$.50– what will the coins be?”

Summer Reading Curiosity Card

Coin Guessing Game

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Summer Reading Curiosity Card

Camouflage Toy

Materials:

Stuffed animal



Directions:

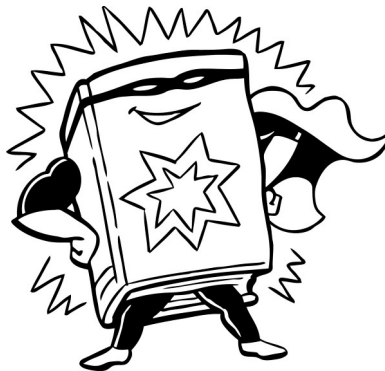
Take a stuffed bear or animal toy and hide in plain sight, but against a background that will camouflage it. See how long it takes your child to see the animal. Talk about camouflage for survival.

Summer Reading Curiosity Card

Camouflage Toy

Materials:

Stuffed animal



Directions:

Take a stuffed bear or animal toy and hide in plain sight, but against a background that will camouflage it. See how long it takes your child to see the animal. Talk about camouflage for survival.

Summer Reading Curiosity Cards

Sun Dried Raisins

Materials:

Fresh red and green grapes

Slatted tray

Directions:

1. Rinse your red and green grapes.
2. Place your grapes on a tray. Use a wooden, wicker, bamboo, or plastic tray that is slatted so that air can circulate around the fruit.
3. Place the tray outside in a dry, sunny place. This requires warm, dry weather. If your climate produces night fogs or dew, take the trays inside at night.
4. Let the grapes sit out in the sun for 2-3 days or until dry. Rotate the fruit and/or tray to ensure even exposure to the sun.
5. Remove dried grapes gently from the remaining stems and store them in a dry, airtight container in a cool place.

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Summer Reading Curiosity Card

How Old is That Tree?

Materials:

Tree
Measuring tape
Marker
Pen
Paper



Directions:

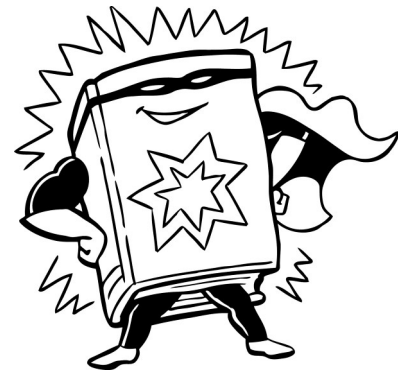
1. Find a tree that is at least as tall as a grown up.
2. Wrap your measuring tape around the widest part of the trunk
3. Write this measurement on a piece of paper
4. The measurement of the circumference in inches is also the approximate age of the tree in years!

Summer Reading Curiosity Card

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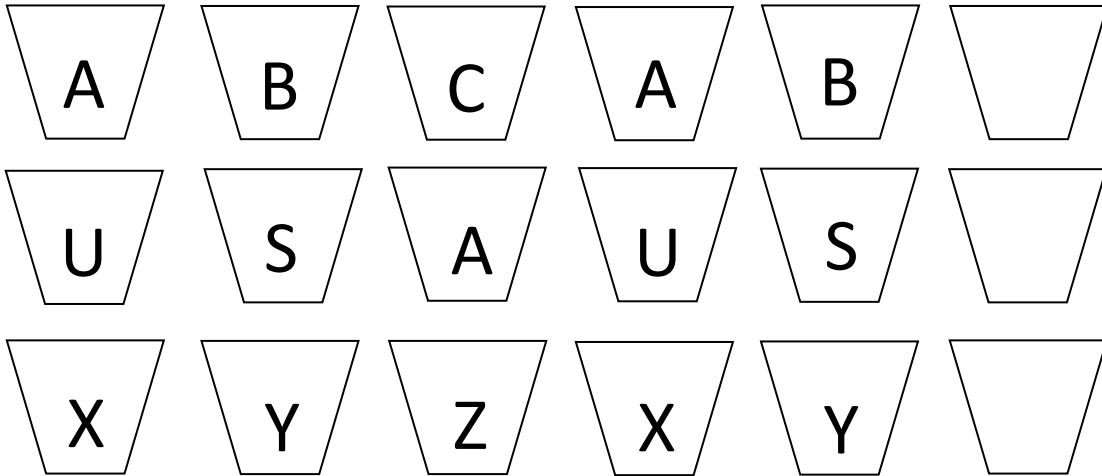


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Summer Reading Curiosity Card

Patterns

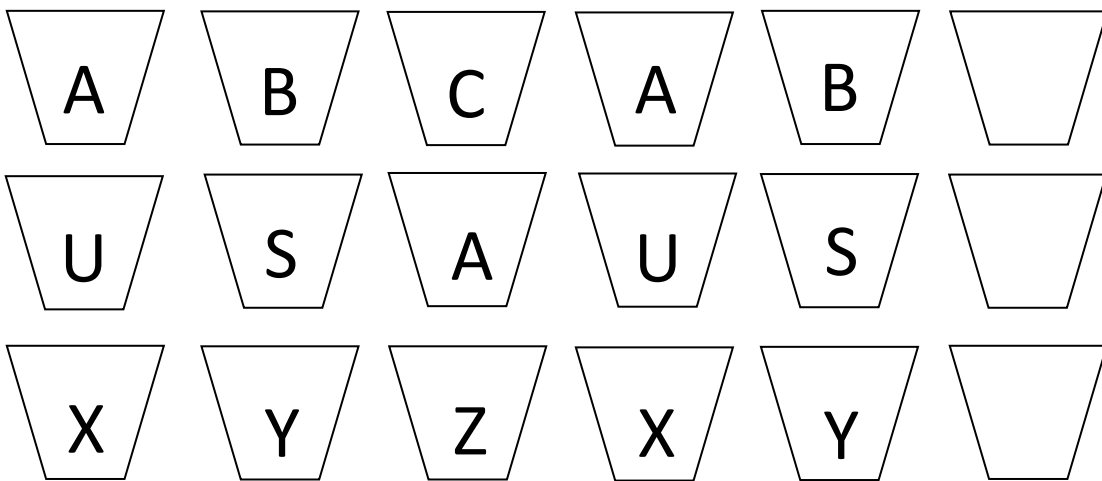


Directions:

Look at the letters in the shape. Do you see a pattern? Study the pattern to help you write the letter that comes

Summer Reading Curiosity Card

Patterns

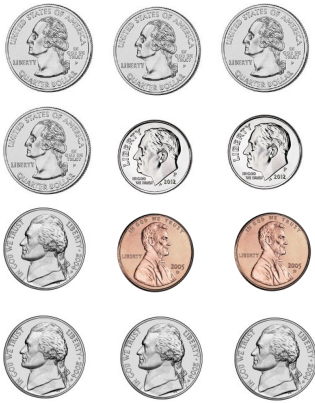


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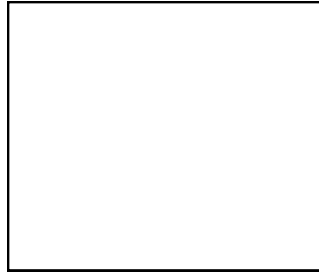
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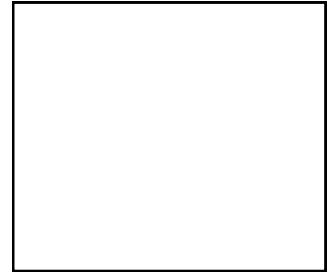
Counting Money



31¢



86¢



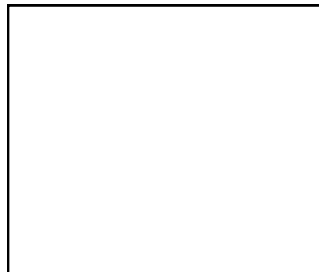
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Summer Reading Curiosity Card

Counting Money



31¢



86¢



Directions:

Summer Reading Curiosity Card

Exploding Bag!

Materials:

Ziploc bag
1 1/2 tablespoons of baking soda
1/2 cup of vinegar
1/4 cup of water
Paper towel



Directions:

1. Check your Ziploc bag for leaks by filling it half way with water and turning it upside down. If it leaks, use a different bag.
2. Tear a paper towel into a square that measures 5 inches by 5 inches.
3. Put 1 1/2 tablespoons of baking soda onto the center of the square and fold the square as shown.
4. Pour 1/2 cup of vinegar and 1/4 cup of warm water into the Ziploc bag.
5. Zip the bag halfway and carefully slip the baking soda packet into the bag.
6. Put the bag on the ground and stand back!



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Summer Reading Curiosity Card

Analog vs. Digital

Materials:

4 cube shaped boxes (such as tissue boxes)
Brown craft paper
Tape
Markers
Scissors
Paper plate
Construction paper



Directions:

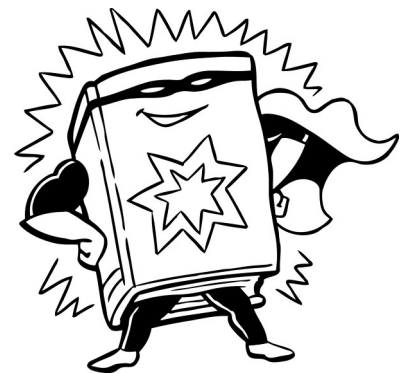
1. Wrap the four cubes in brown paper.
2. Number the faces of one cube 1 through 6. Number the faces of the second cube 7 through 12. On the third cube, label the faces with the minutes :05, :10, :15, :20, :25, and :30. On the fourth cube, label the faces :35, :40, :45, :50, :55, :00.
3. Draw a clock face on the paper plate. Draw a pair of clock hands on the construction paper. Make sure one is smaller than the other!
4. Roll one hour die (1-6 or 7-12) and one minute die (:05-:30 or :35-:00). Position the dice to look like a digital clock.
5. One you've got the time, use the paper plate clock to position the hands to the same time you rolled. Play as many times as you want!

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Summer Reading Curiosity Card

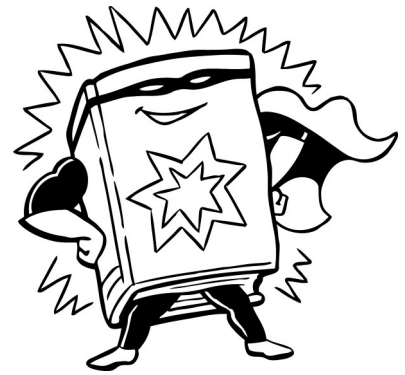
Dissolving Sugar

Materials:

Sugar cubes
Cold water in a clear glass
Hot/warm water in a clear glass
Spoon for stirring

Directions:

1. Make sure the glasses have an equal amount of water.
2. Put a sugar cube into the cold water and stir with the spoon until the sugar disappears. Repeat this process (remembering to count how many sugar cubes you put into the water) until the sugar stops dissolving (you are at this point when sugar starts to gather on the bottom of the glass rather than dissolving).
3. Write down how many sugar cubes you were able to dissolve in cold water.
4. Repeat the same process with the hot/warm water. Compare the number of sugar cubes dissolved in each liquid. Which liquid dissolved more sugar cubes?



Summer Reading Curiosity Card

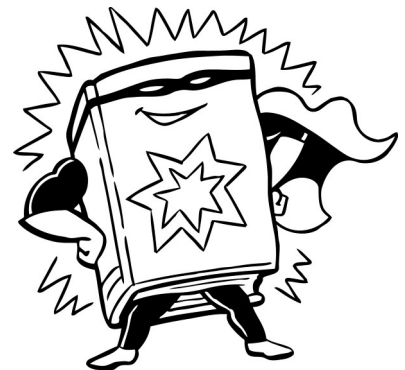
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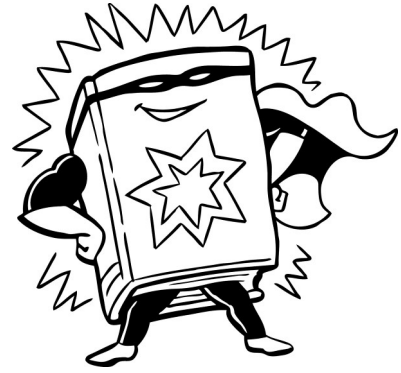
Candy Graph!

Materials:

Multicolored candy (such as Skittles or Smarties)
Pencil
Paper
Markers

Directions:

1. Pull out several handfuls of candy.
2. Sort the candy into piles by color.
3. Count how many pieces are in each pile and write down the number.
4. Create a bar graph. Along the bottom line (x-axis), make a section for each color. Along the vertical line (y-axis), write in numbers in increments of 5 or 10 depending on the amount of candy you've decided to use.
5. Draw bars to show how many pieces of candy you have for each color. If you want a cool visual, use markers that are the same color as the candy they represent on the graph!



Summer Reading Curiosity Card

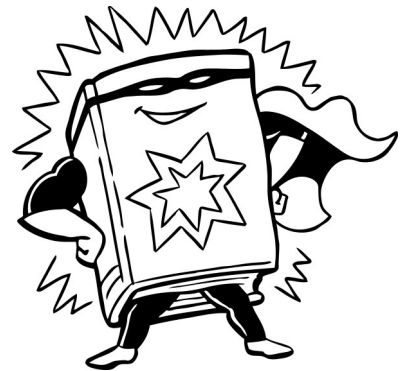
Candy Graph!

Materials:

Multicolored candy (such as Skittles or Smarties)
Pencil
Paper
Markers

Directions:

1. Pull out several handfuls of candy.
2. Sort the candy into piles by color.
3. Count how many pieces are in each pile and write down the number.
4. Create a bar graph. Along the bottom line (x-axis), make a section for each color. Along the vertical line (y-axis), write in numbers in increments of 5 or 10 depending on the amount of candy you've decided to use.
5. Draw bars to show how many pieces of candy you have for each color. If you want a cool visual, use markers that are the same color as the candy they represent on the graph!



Summer Reading Curiosity Card

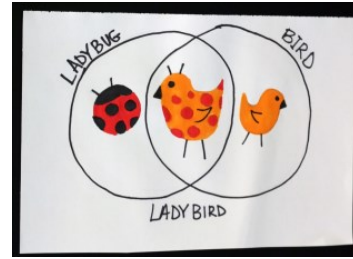
Venn Diagram Creature

Materials:

Paper
Pencil
Crayons, colored pencils, or markers

Directions:

1. Turn your sheet of paper so that it is horizontal.
2. Draw two large circles that overlap in the middle.
3. Name two animals or insects. Place one name at the top of each circle where they do not overlap in the middle.
4. Draw each animal/insect under its name in one of the segments that do not overlap.
5. Come up with a way to combine the names of these animals/insect. For example, a butterfly and a bumblebee might become a butterbee or maybe a bumblefly. Write the name you come up with at the bottom of your diagram where the circles overlap.
6. Think about the characteristics of these two animals/insects. What's similar? What's different? Now, combine the characteristics of these animals/insects to create the fantasy creature you named in step 5.



Summer Reading Curiosity Card

Venn Diagram Creature

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