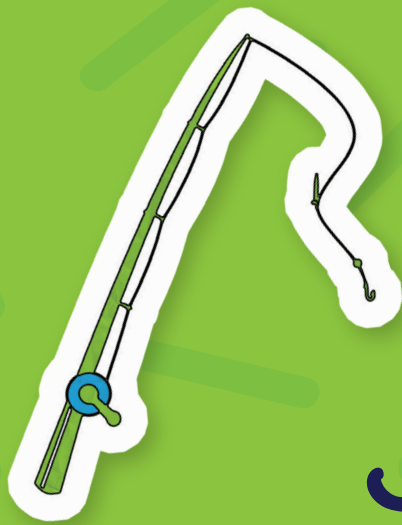




SUPER CREATIVE

SUMMER ACTIVITY BOOK



FOR LOWER
ELEMENTARY

Featuring activities from MLC and PBS KIDS

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programming**

WEEKDAYS
5AM To 5PM

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WELCOME TO YOUR SUMMER ACTIVITY BOOK!

Here's how to use this book to have a summer full of learning and fun.



Use Grade Levels

This book spans multiple grade levels—choose a few lessons each week and explore new ones as you go. Save the tougher challenges for later in the summer or even next year.



Go Week by Week

This book is designed to be used over eight weeks—try spreading the activities across a few days each week. Find a routine that works best for your students.



Watch Helpful Videos

Scan the QR codes throughout this book to watch videos with extra instructions and examples, or find them all online at **michiganlearning.org/summer**

For Those Rainy Days and Beyond.

Find Michigan Learning Channel on your TV, watch our 24/7 online livestream, or explore our on-demand library anytime. Visit michiganlearning.org/schedule to see what's on our broadcast channel, or tune in to our free livestream.

On TV, online, statewide—anytime you need us.

WEEKS AND THEMES

Each week of our summer program has a different theme.
See what's in store below.

Week 1: Take Flight

From planes and kites to butterflies and birds, discover the fables and physics of things that fly.

Week 2: Under Water

Dive deep into oceans, rivers, and our own Great Lakes to discover what it takes to live beneath the waves.

Week 3: Heroes

Celebrate our nation's birthday and the people we call heroes, whether they are veterans, everyday helpers, or the kind who wear capes.

Week 4: Creatures

From the prehistoric to the present, learn about the fascinating features of creatures near and far.

Week 5: Engineering

Meet the people who design bridges, cars, and video games and learn how to think like an engineer.

Week 6: Great outdoors

Explore the world outside your door and the incredible parks and waters that belong to us all.

Week 7: When I Grow Up

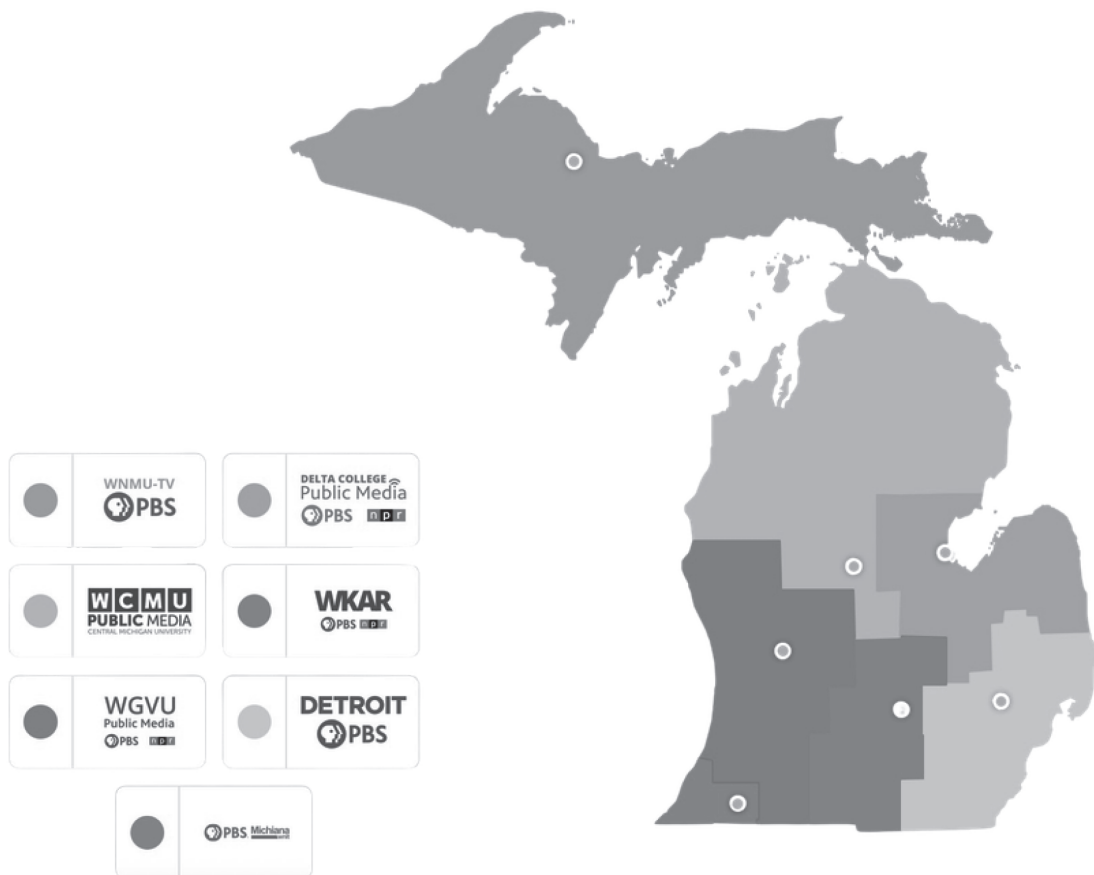
All summer we'll learn about different careers—this week, think about all the exciting possibilities in your future!

Week 8: Shoot for the Stars

Look up at the night sky and into outer space and meet people who risked everything to follow their dreams.



The Michigan Learning Channel (MLC) is a statewide education service powered by all seven of Michigan's public television stations*—working together to ensure every learner, family, and educator can access high-quality resources, everywhere in the state. Through this unified public media partnership, MLC expands learning beyond the classroom with trusted materials, enrichment opportunities, and community engagement that meet people where they are.



Note: WNIT is licensed in Indiana and serves parts of southwest Michigan via broadcast signal. Inclusion on this map reflects audience reach only.



Learning Goals

Series

Grade Learning Goals



Series	Grade	Learning Goals
Acoustic Rooster	PK-K	The Arts
Alma's Way	PK-1	Emotions, Self-Awareness, & Relationships
Arthur	K-2	Emotions, Self-Awareness & Relationships
Carl the Collector	K-2	Emotions, Self-Awareness & Relationships
City Island	K-2	Social Studies
Clifford the Big Red Dog	PK-K	Literacy & Language, Relationships
Count on June Bug	PK-K	Math
Curious George	PK-K	Math, Science & Engineering
Cyberchase	1-2	Math & Science
Daniel Tiger's Neighborhood	PK-K	Emotions, Self-Awareness & Relationships
Design Squad Global	1-2	Science & Engineering
Dinosaur Train	PK-K	Science
Donkey Hodie	PK	Emotions, Self-Awareness & Relationships
Elinor Wonders Why	PK-K	Science & Engineering
Hero Elementary	K-2	Science & Engineering
Jamming on the Job	K-2	Social Studies, Self-Awareness & Relationships
Jelly, Ben & Pogo	PK-K	Self-Awareness, Relationships & The Arts
Keyshawn Solves It	K-2	Emotions, Self-Awareness & Relationships
Let's Go Luna!	K-2	Social Studies
Lydia in the Loop	K-2	Science, Technology, Engineering & Math
Mega Wow	K-2	Science & Engineering
Mister Rogers' Neighborhood	PK-K	Emotions, Self-Awareness & Relationships
Molly of Denali	K-2	Literacy & Language
Nature Cat	K-2	Science
Milo	PK-K	Social Studies



Mystery League	K-2	Social Studies
Odd Squad	K-2	Math
Oh Noa!	K-2	Spanish & Social Studies
Phoebe & Jay	PK-K	Literacy & Language
Peg + Cat	PK-K	Math
Pinkalicious & Peterrific	PK-1	The Arts
Ready Jet Go!	K-2	Science & Engineering
Rosie's Rules	PK-K	Social Studies
SciGirls	1-2	Science & Engineering
Scribbles and Ink	K-2	The Arts
Sesame Street	PK-K	Emotions, Self-Awareness, Relationships, Math, Literacy & Language
Sid the Science	PK-K	Science
Super Why's Comic Book Adventures	PK-K	Literacy & Language
Team Hamster!	K-2	Science & Engineering
The Cat in the Hat Knows a Lot About	PK-K	Science & Engineering
The Ruff Ruffman Show	K-2	Science & Engineering
Through the Woods	PK-K	Science
Tiny Time Travel	K-2	Literacy & Language
Together We Can	K-2	Social Studies
Weather Hunters	K-2	Science, Technology & Engineering
What Can You Become?	PK-K	Social Studies, Self-Awareness & Relationships
Wild Kratts	K-2	Science
Wordgirl	K-2	Literacy & Language
Word World	PK-K	Literacy & Language
Work It Out Wormbats!	PK-K	Science, Technology, Engineering & Math
Xavier Riddle and the Secret Museum	K-2	Emotions, Self-Awareness & Relationships

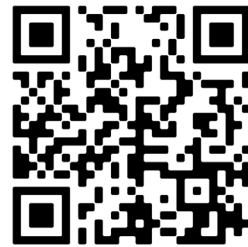


Watch and play on PBS KIDS! pbskids.org

WEEK 1: TAKE FLIGHT

Complete activities and play BINGO!

Scan the QR code or visit [Michiganlearning.org/summer](https://michiganlearning.org/summer) to see video lessons for this week's activities. Use the boxes below to check off activities as you complete them. See if you can get a BINGO!



Watch Read, Write, ROAR!	Complete Page 20-21 Activity	Complete Page 10 Activity	Take a walk outside with friends	Find the windiest spot
Complete Page 9 Activity	Draw your dream flying machine	Watch Wimee's World	Paint the sunset	Complete Page 18-19 Activity
Create 3 "bird-like" stretches	Create a rainbow fruit snack	Free Space	Complete Page 11 Activity	Find 5 different birds
Complete Page 13 Activity	Watch Math Mights	Share your snack outside	Find 3 cloud shapes	Complete Page 14-15 Activity
Complete Page 17 Activity	Read outside for 20 minutes	Complete Page 12 Activity	Watch PBS KIDS	Fly and race paper airplanes



Episode 6, Christina, Andrés, and BoomBox meet an Airport Operations Manager



Maze

Draw a line to help Andrés find the way to his missing guitar in the airport.



Original Production Funding for Jamming on the Job is provided by a Ready To Learn Grant from the U.S. Department of Education through the Corporation for Public Broadcasting.

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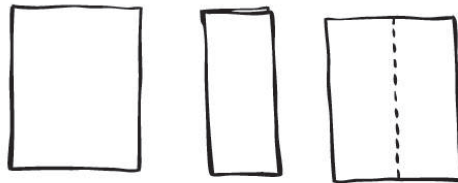
DESIGNED BY:





Paper Airplane

1. Fold paper in half the long way and reopen.



2. Fold the top two corners into the center spine of the paper.



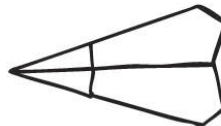
3. Refold lengthwise and rotate the paper to lay on the table like this:



4. Fold the top left corner down to lay parallel to the bottom spine. Repeat this step on the other side.



5. Turn the paper over and repeat the last two steps. Your airplane should look like this!



6. Now, try to fly it to the moon! How far can you make the airplane fly?

For more games and activities, visit pbskidsforparents.org

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ACTIVITY GUIDE

Episode 204: Day and Night and Fun with -sh-, -th-, and -ch-

Scan below to watch lesson



Read It

Read the following poem out loud with someone you live with. Underline the words with the **sc** and **sk** blends.

Look up at the sky,
Do you see the clouds skip?
Sketch the night sky,
Do the stars seem to flip?
I have my book in hand to sketch all that I see,
Scoop up your markers or crayons and try to join me!

By Shernita Rodgers

Read It

Some words have two consonants that blend together at the beginning of words but still produce their own sounds. You will find this in the **s** blends **sc** and **sk**.

The s and c blend together to say /sc/.

The s and k blend together to say /sk/.

Sound out the words below. Then blend the sc and sk sounds together.

s c a n **scan**

s k i p **skip**

Write It

Think about the story that you have been writing. What might be a good **lead sentence** to hook your readers? Remember to include the four w's.

Who _____ Where _____ What _____

When _____



ACTIVITY GUIDE

Episode 206: Earth's Hemispheres and Character Dialogue

Scan below to watch lesson



Words to Know

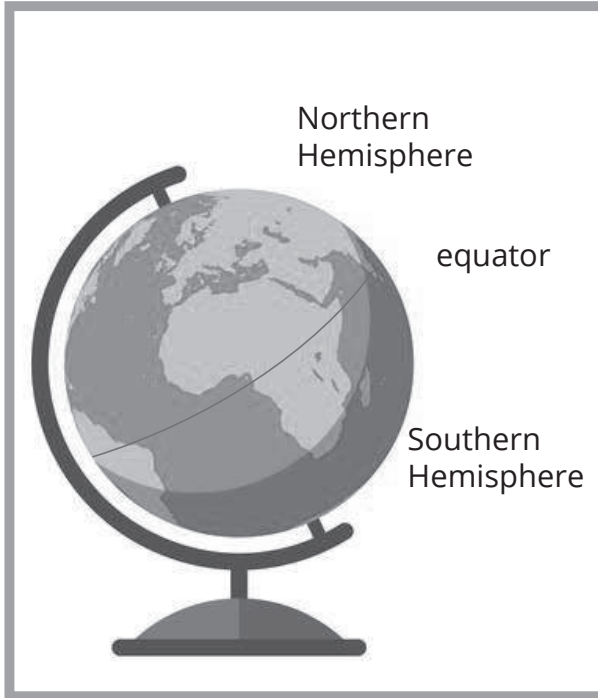
equator - The imaginary line around the middle of the Earth

hemisphere - a half of a sphere or ball

opposite - completely different or located at another side or end

rotate - to move or spin from the center or axis in a circular motion

tilt - when an object is a little bit higher on one side than it is on the other side



Write It

Use the words from above to fill in the blanks.

The _____ separates the northern and southern _____(s). We have day and night because the Earth _____(s) on its axis. We have the seasons because the Earth is _____(ed). If it is summer in the northern hemisphere then it is winter in the southern hemisphere. That is because the northern and southern hemispheres have _____ seasons.



5 Way Challenge

Write the number 5 ways.

356	Only Tens and Ones
A Base Ten Diagram	Word Form
Compose a Different Way	Expanded Form



Design a Pinwheel

See the wind at work!

Scientists use an anemometer to measure wind. It works just like a pinwheel! Measure and record the wind speed like Lily Hunter does using a pinwheel.

Make sure to decorate only one section of the pinwheel with your favorite weather-related activity (like flying a kite, jumping in puddles) so you know when your pinwheel has spun one full time around.

Instructions

1. Decorate one section of the pinwheel.
2. Cut out the pinwheel along the dashed lines.
3. Use the thumbtack to poke holes in the center of the pinwheel and in the four corners. Twist the pin.
4. Curl tips to center point.
5. Insert the thumbtack through the hole and into the eraser of the pencil.

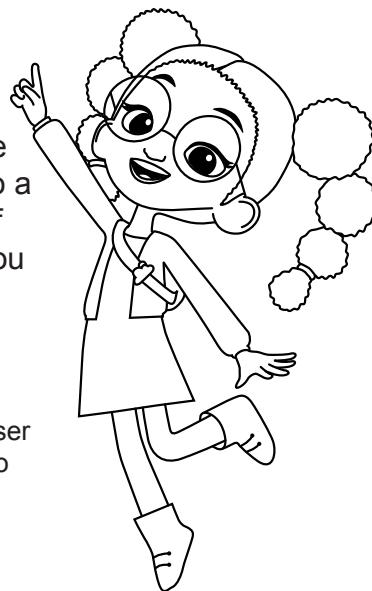
Materials

- crayons
- blunt tip scissors
- pencil
- thumbtack

Extend the Learning

Have a grown-up set a timer for one minute. Try and count the number of times the pinwheel spins. (Note: It might be difficult to count the number of times the pinwheel spins one full time around if it is very windy!) Now take the pinwheel to a place that has more wind or less wind. Count the number of spins and compare the number of times it spins. How do you know what place was the windiest?

Tips: To help your pinwheel spin better, push the thumbtack into the eraser at a slight angle so the paper does not touch the pencil. You might also add a tiny bead or button at the head of the pin to reduce friction.



For more games and activities, visit: pbskids.org/weatherhunters

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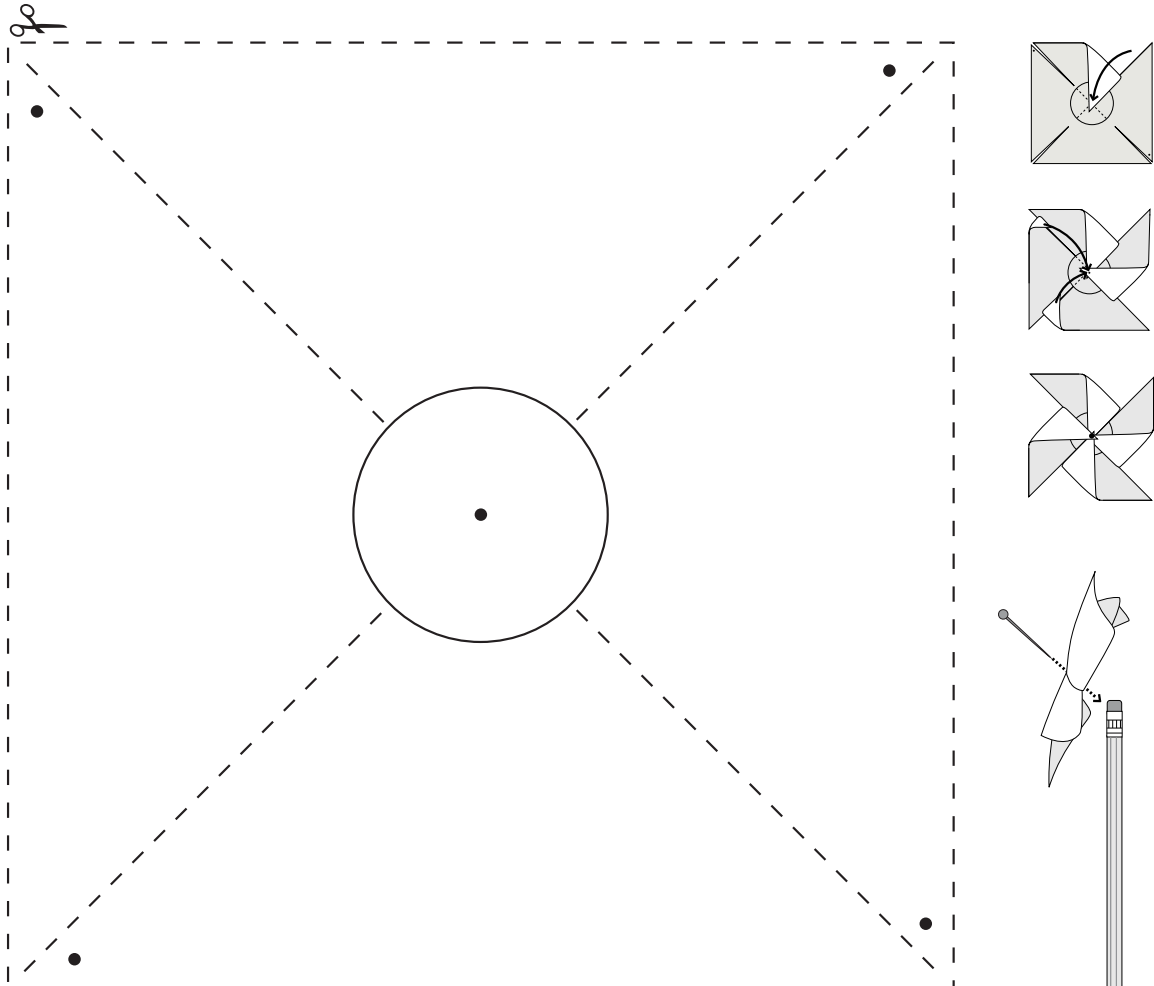


Design a Pinwheel

See the wind at work!

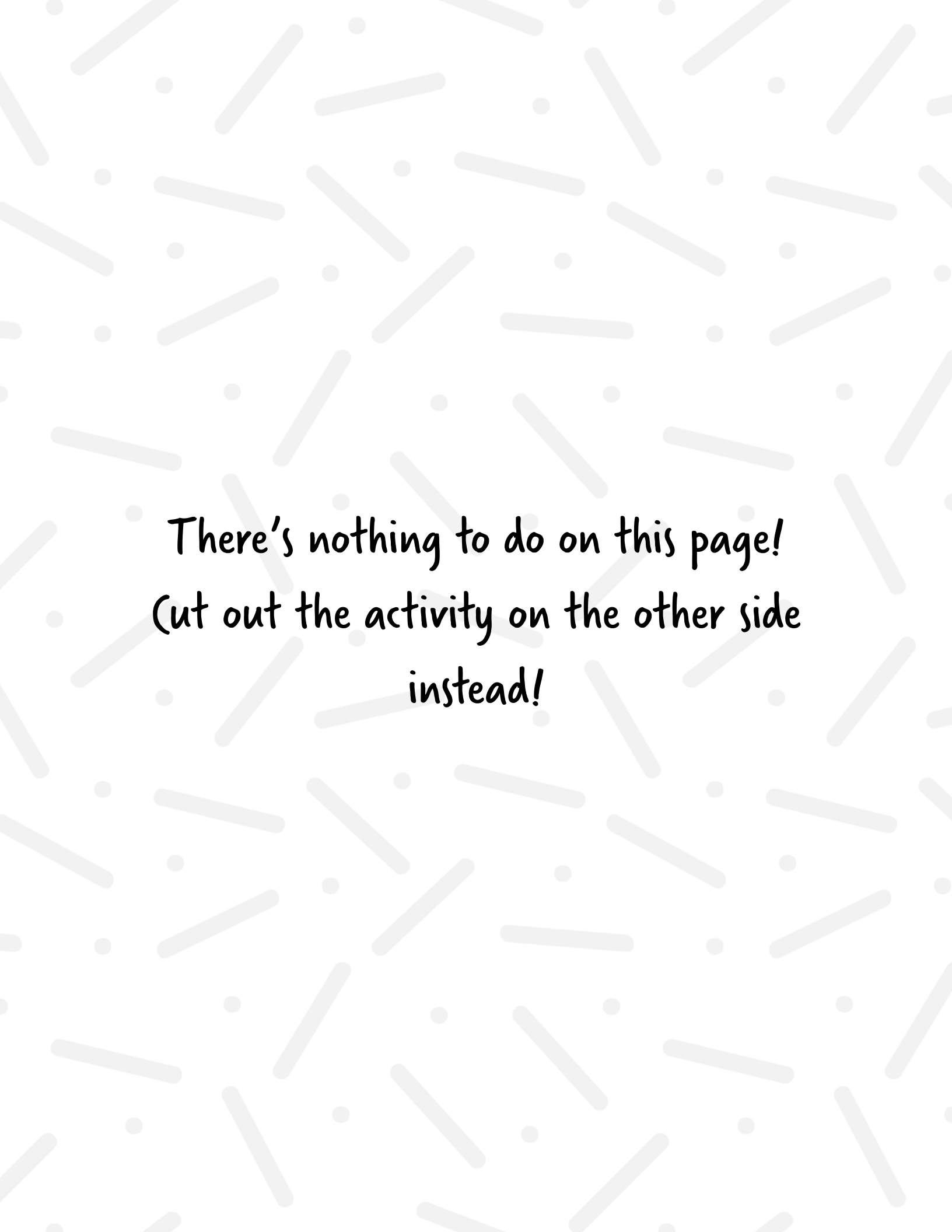
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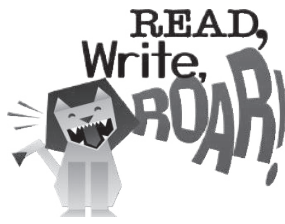


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There's nothing to do on this page!
Cut out the activity on the other side
instead!



ACTIVITY GUIDE

Episode 202: Up in the sky! and A Narrative Story

Scan below to watch lesson



Read It

Think of ideas for a narrative story about a time when the daytime or nighttime sky was an important part of the story. Write your ideas on the lines below.

1. _____
2. _____
3. _____
4. _____
5. _____

Write It

Reread the list of topics that you made above. Before choosing a topic to write about, use the questions below to help you decide which topic is the best fit for your story. Cross out the topics that don't meet your needs.

1. Which topics have important parts that are related to the daytime or nighttime sky?
2. Which topics have something to do with the sky and why it was that way during that time of year?
3. Which topics do I remember well enough to write a story about? Do I remember who was there, how I felt, what it looked like? Will the sky be an important part of the story?
4. Which story am I excited to write about that will help me think about the importance of the daytime or nighttime sky? Who will I share it with?



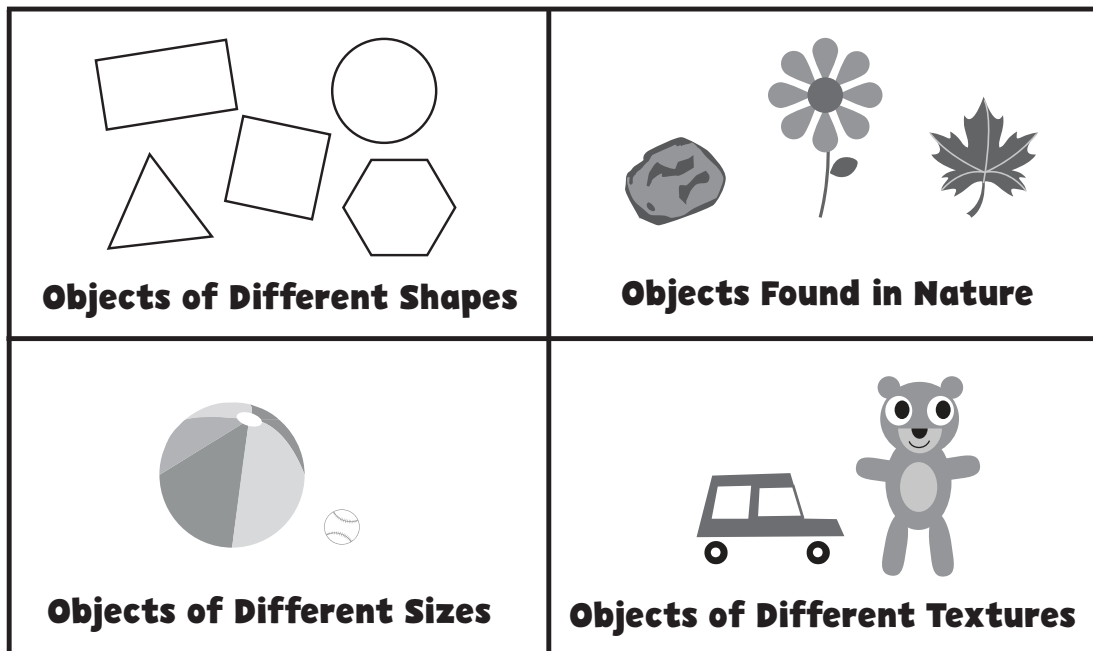
Wondering About the Wind

The strength of the wind is not always the same. It can be gentle and soft, or it can be strong and powerful. In this experiment, you will investigate the wind's strength and how it may or may not move objects of different weights. Practice documenting the process as you record your predictions and the results.

Steps:

1. Choose an object and draw a picture of it in the first box of the column, "**Object**".
2. Notice the strength of the wind and predict if the wind will move your object. Mark your prediction in the first box of the second column, "**My Prediction**".
3. Then, perform your investigation. Lay the object on a flat surface and observe if the wind moves it.
4. Record the result of your experiment in the last column, "**Results**".
5. Talk about what you observed with someone else. What did you predict and what was the result?
6. Choose three more objects and repeat the steps of the experiment.

You Might Explore...



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Wondering About the Wind

Object	My Prediction	Results
	☐ It will move. ☐ It will not move.	☐ It moved. ☐ It did not move.
	☐ It will move. ☐ It will not move.	☐ It moved. ☐ It did not move.
	☐ It will move. ☐ It will not move.	☐ It moved. ☐ It did not move.
	☐ It will move. ☐ It will not move.	☐ It moved. ☐ It did not move.

Find more games and activities at pbskidsforparents.org

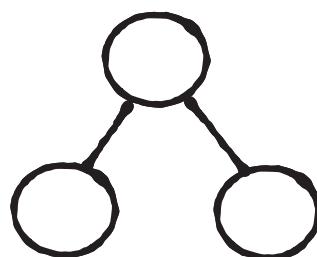
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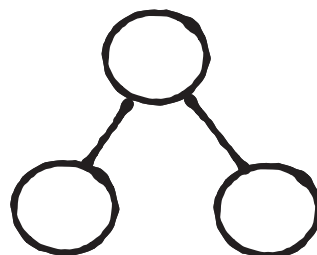
10 Frame Shake!

Shake a cup with 10 two-sided counters and dump it out. Count how many of each color you have and record it in the number sentence and number bond. Keep going until you have all 9 combinations for 10.

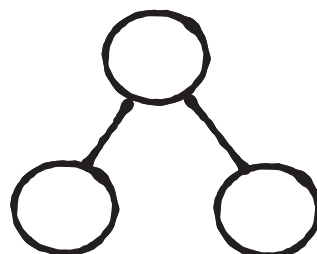
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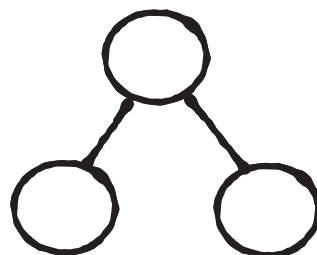
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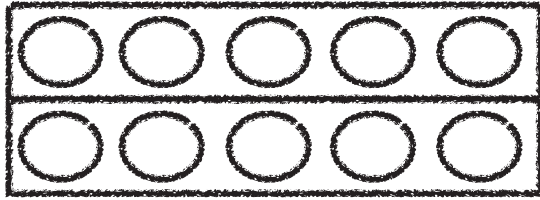


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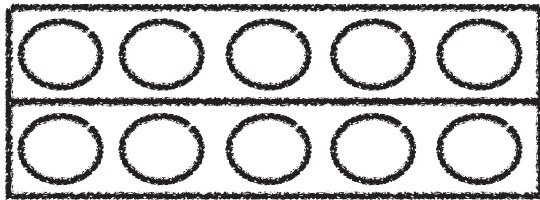
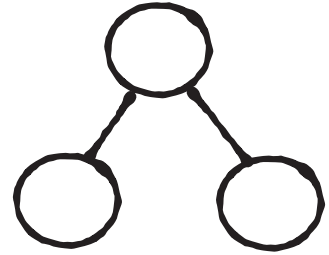


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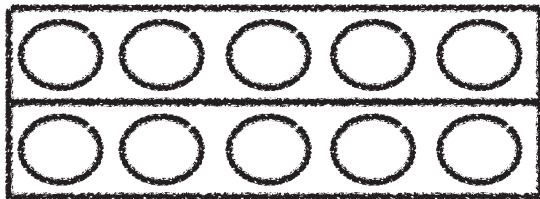
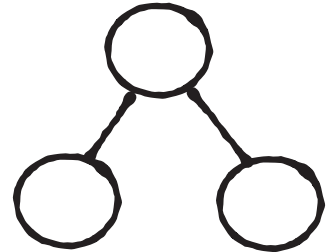




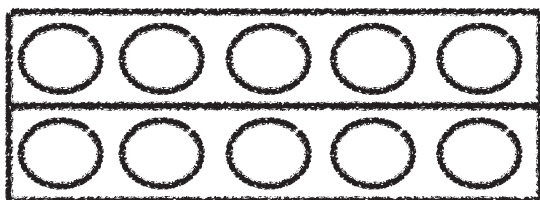
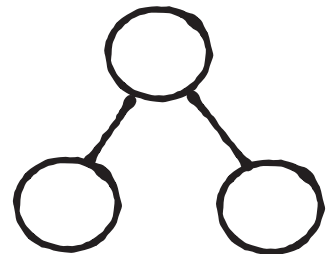
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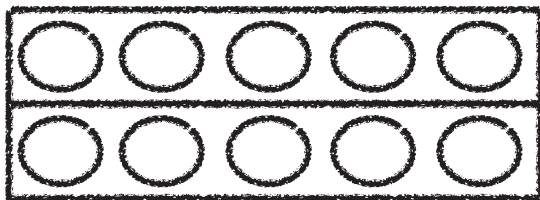
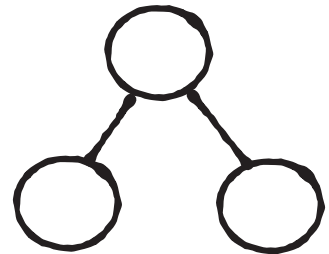
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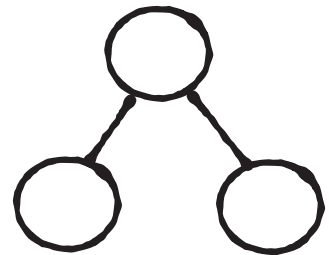
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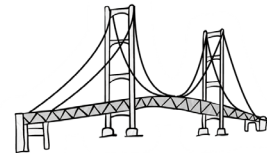


WEEK 2: UNDER WATER

Complete activities and play BINGO!



Scan the QR code or visit [Michiganlearning.org/summer](https://michiganlearning.org/summer) to see video lessons for this week's activities. Use the boxes below to check off activities as you complete them. See if you can get a BINGO!



Watch Read, Write, ROAR!	Complete Page 28-29 Activity	Read about ocean animals	Draw your favorite lake creature	Teach someone a fish fact
Find something that sinks	Dance like a jellyfish	Watch Wimee's World	Complete Page 23 Activity	Find something blue nearby
Sit quietly by water	Read about lakes or oceans	Free Space	Search for smooth stones	Complete Page 25 Activity
Complete Page 24 Activity	Watch Math Mights	Find something that floats	Complete Page 30 Activity	Make ripples on water
Complete Page 31 Activity	Help water plants	Complete Page 26-27 Activity	Watch PBS KIDS	Pick up litter near water



Ice Cubes and Water: Now and Later

Instructions:

1. Fill one plastic, clear cup with water and a second plastic, clear cup with ice.
2. Find a piece of chalk, a pencil, and take the two cups and this paper and go outside.
3. Pour a small amount of water on the ground. Outline the water puddle with chalk. In the first column, draw what you notice about the water.
4. Next, place one of your ice cubes on the ground and outline it with chalk. Leave one ice cube in a clear cup. After 30-minutes, in the second column, draw what you observe about the ice.
5. When another 30-minutes pass, write or draw a question you are interested in.

During my investigation I noticed this about the water...

When I first poured the water on the ground, the water looked like this...

After 30-minutes, the water I poured looked like this...

I observed this about the ice...

When I first placed the ice on the ground, the ice looked like this...

After 30-minutes, the ice looked like this..

What do you notice about how liquid water changed? _____

What do you notice about how solid water (ice) changed? _____

A question I still wonder about is... _____

I made the connection in my mind when I observed the water and ice that... _____

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ACTIVITY GUIDE

Episode 202: More Prefixes and Saving the Trout
Book: *Underwater Adventures with Louis and Louise* by Stephen Schram

Scan below to watch lesson



Phonics Skills

Read the passage out loud. Underline the words with the **prefix** fore- and trans-.

Did you know the Blackpoll Warbler bird weighs less than a pencil? And yet it takes a transoceanic trip every winter! Before using a GPS, scientists didn't foresee this tiny bird flying across the ocean. They were surprised! Scientists think the foremost goal of the Warbler is to migrate quickly.

Words to Know

A **prefix** is a word part added to the beginning of a word that changes the meaning of the word.

The prefix **trans-** means "across" or "beyond".

The prefix **fore-** means "before" or "in front of".



Look for the trans- and fore- prefixes in your own reading.

Write It

Break each word into syllables and write the word parts in the blanks provided.

word	syllables		meaning
foresee	fore	see	to see before it happens
forewarn			to warn before something happens
foremost			most important
transoceanic			to go across the ocean
transfix			to make something motionless
transplant			to move something from one place to another



ACTIVITY GUIDE

Episode 203: Suffixes and Saving the Salmon

Book: *Swimming Salmon* by Kathleen Martin-James

Scan below to watch lesson



Phonics Skills

Read the paragraph out loud. Circle the words with the -ous and -en suffixes.

When visiting a lake, you might see a Ring-billed Gull. Although these birds eat fish and insects, you should tighten your grip on your sandwich. These adventurous gulls might feast on your leftovers! Cleaning up your snacks encourages gulls to eat their natural foods.

Try It

A **suffix** is a word part added to the end of a word to change a word and its meaning.

-ous
full of, having

-en
to cause to be or have

We often drop the -e on base words when we add suffixes that start with vowels.

Write It

Combine each base word with the given suffix. Write the new word in the space provided and read each definition. Try using the new words in a sentence, and share them with a family member.

base word	suffix	new word	meaning
danger	ous		full of danger
fame	ous		full of fame
fright	en		to cause to be afraid
sharp	en		to cause to become sharp



A POND WITH A VIEW

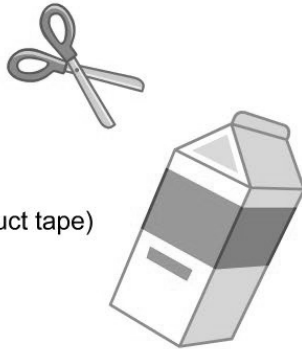
DIFFICULTY: EASY

While there is action all around a pond, what do you think is happening *in* the water? Ponds are filled with animal and plant life that have special qualities that help them spend all or most of their lives underwater. Make this pond viewer to bring on your next pond exploration!



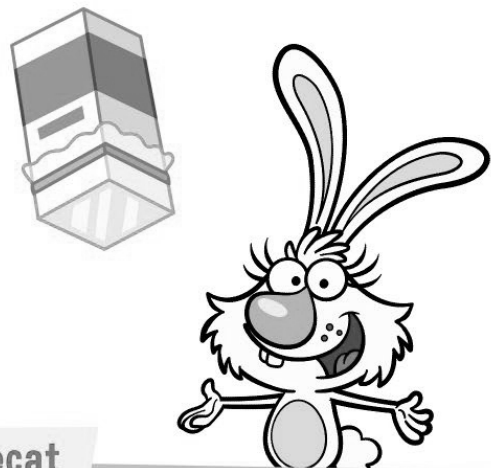
MATERIALS

- One-half gallon milk carton
- Scissors
- Waterproof, strong tape (e.g. duct tape) or a sturdy rubber band
- Heavy, clear plastic wrap



LET'S MAKE A POND VIEWER!

- 1 Have an adult cut off the very top of the milk carton and the very bottom to create a rectangular tube.
- 2 Tear off a sheet of plastic wrap and place it over one of the open ends. Fold down the plastic wrap... make sure wrap is smooth and tight for clear viewing.
- 3 Using the tape or the rubber band, secure the plastic wrap in place. Keep the plastic wrap as tight as possible so you have a flat viewing surface.



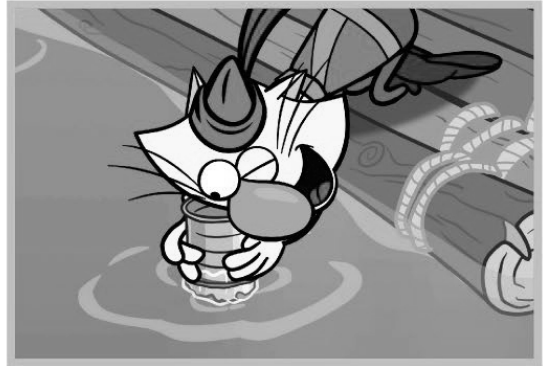
pbskids.org/naturecat

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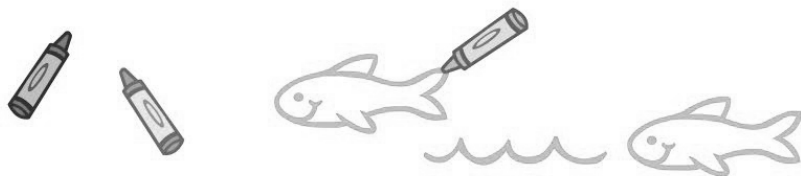
POND VIEWING TIPS

- 1 Splashing and stirring up mud will make it difficult to see into the pond. Be as still as possible when using your viewer.
- 2 Despite what NatureCat says, it is noble and fun to get wet! If the shoreline is murky, slowly wade out to your knees before using your viewer where it may be less murky.
- 3 Other ways to view: on a dock, over the side of a canoe, or in a stream, lake or tide pool!



LET'S TAKE A CLOSER LOOK

Describe a plant or animal that you see. Draw a picture of it, and ask an adult to help you identify and label your picture.



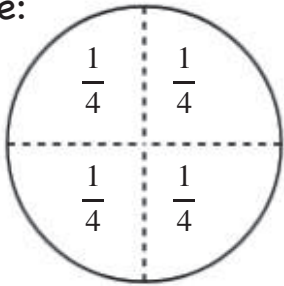
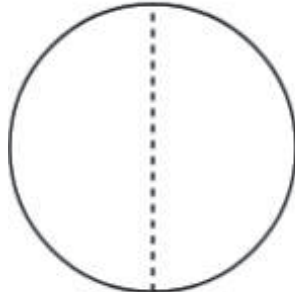
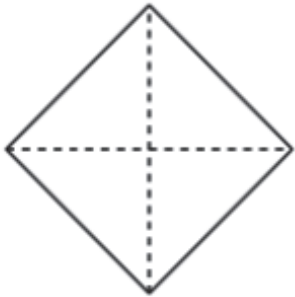
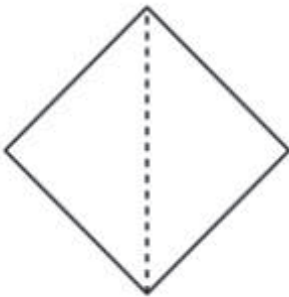
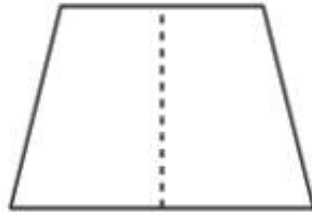
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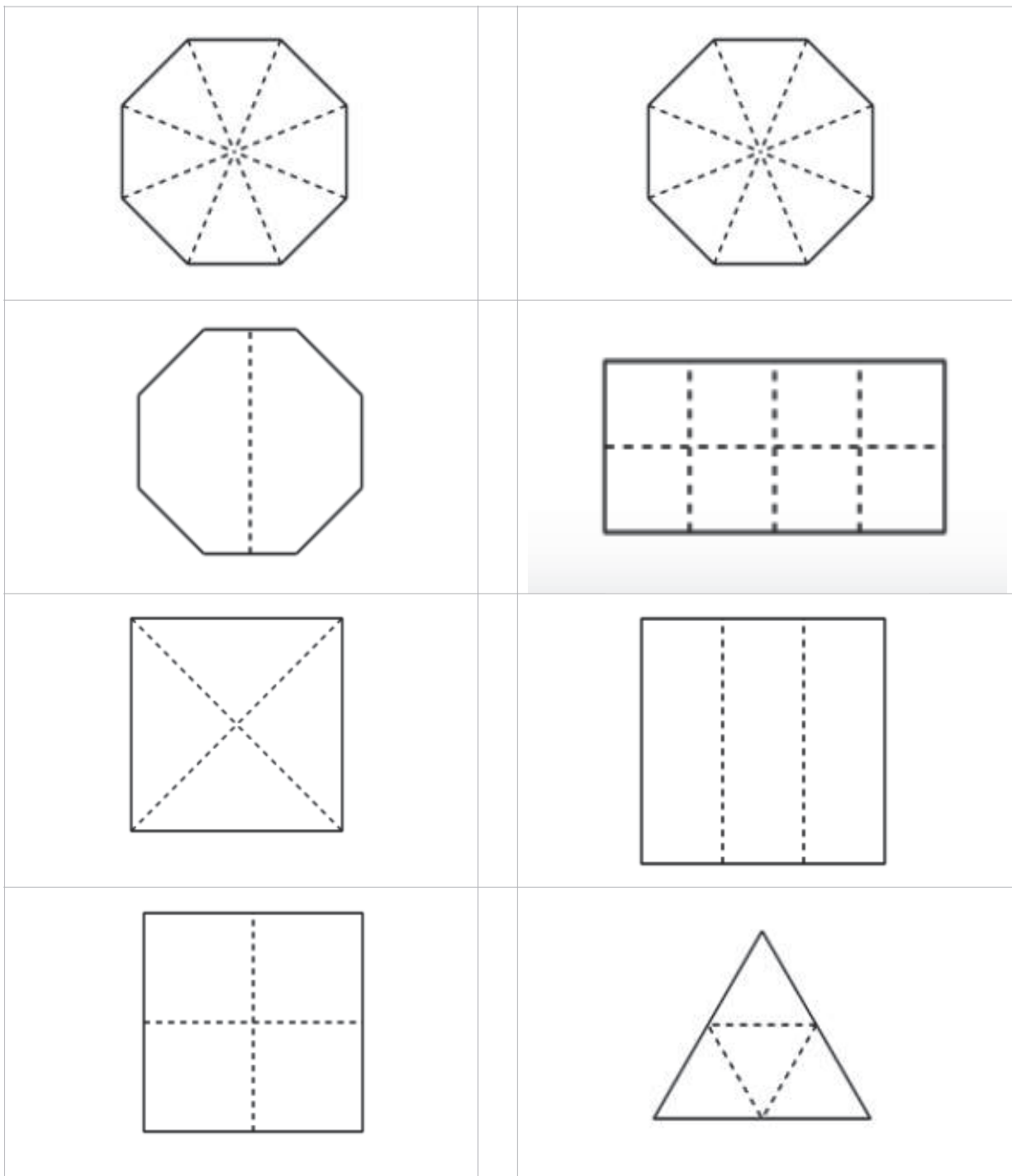


Reading and Writing Fractions

Directions: Label each part of the pictures and practice reading the fraction.

Example:  Practice reading: one fourth	
	
	

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Math Might 3rd Grade #307 | © Strategic Intervention Solutions, LLC | mathmights.org



ACTIVITY GUIDE

Episode 205: Prefixes and Saving the Salmon Part 1

Book: *Come Back, Salmon* by Molly Cone

Scan below to watch lesson



Read It

Read the paragraph out loud. Circle the words with the after- and under- prefixes.

Piping Plovers are hard to spot! These endangered, sandy-colored birds are almost invisible on the beach. It is easiest to see plovers when they sprint toward worms and insects that hide just underground. When plovers chase their afternoon snack, you might see their white underside and orange legs.

Foundational Skills

A **prefix** is a word part added to the beginning of a word to change a word and its meaning.

after-
later or after

under-
below or less

Try It

Combine each base word with the given prefix. Write the new word in the space provided and read each definition. Try using the new words in a sentence, and share them with a family member.

base word	prefix	new word	meaning
effect	after-		result that happens after some time has passed
eat	over-		eat less than you should
thought	after-		something you think about later
ground	under-		below ground



Add & Subtract with Teen Numbers with Value Pak

Equation	Solve by drawing base ten blocks or model in a double ten frame
$13 = 10 + \square$	
$10 + 6 = \square$	
$17 = \square + 7$	
$10 + \square = 15$	
$2 = 10 - \square$	
$14 - 10 = \square$	
$\square = 18 - 10$	

WEEK 3: HEROES

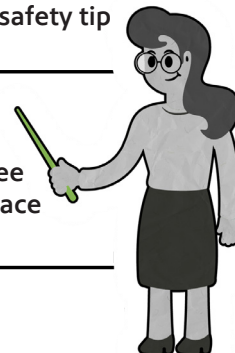
Complete activities and play BINGO!

Scan the QR code or visit [Michiganlearning.org/summer](https://michiganlearning.org/summer) to see video lessons for this week's activities. Use the boxes below to check off activities as you complete them. See if you can get a BINGO!



Superhero
Challenge
Row!
→

Watch Read, Write, ROAR!	Complete Page 33 Activity	Help a friend solve a problem	Write a thank-you note	Complete Page 41 Activity
Say thank you to a helper	Complete Page 42 Activity	Watch Wimee's World	Read about a real hero	Complete Page 37 Activity
Jump over three "lava" spots	Crawl under the hero tunnel	Balance across the "bridge"	Dash to the rescue zone	Strike your superhero pose
Complete Page 39 Activity	Watch Math Mights	Complete Page 34 Activity	Complete Page 36 Activity	Teach someone a safety tip
Complete Page 35 Activity	Do a secret act of kindness	Draw someone who helps others	Watch PBS KIDS	Free Space





Episode 1, Christina and Andrés meet Marco, a Nurse Practitioner

Coloring



While you listen, meet Christina, Andrés, BoomBox...



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Gadget Gurus

Create a gadget! AJ Gadgets makes super tools from everyday items. You can too! Create a gadget from recyclables. Think about AJ's greatest gadgets: Arm-O-Matic, Rope Launcher, Twigcam, Dragonfly Drone, Launcher, Lacer Racer, Tooth Brushing Gadget, Night Vision Goggles. Next, take some time to think about what you would like to build. Draw your ideas below. Then, gather objects to complete your design! Be sure to ask a grownup for help if you need it.

What you need:

- **Pencil and eraser Recyclables:**
 - cardboard boxes, plastic bottles, tin cans, newspapers/magazines, old toys, or other old objects (don't use if there are sharp edges)
- **Joiners:** tape, glue, string, wire, pipe cleaners
- **Decorators:** paint, crayons, markers, stickers, and other craft supplies
- **Cutters:** scissors, hole punchers, etc. Be sure to use a grownup helper!



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For more games and activities, visit pbskids.org/heroelementary

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ABCMouse.com



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ACTIVITY GUIDE

Episode 213: Closed, Open, and V-C-E
Part 1

Book: *Ajijaak ("Crane")* by Cecilia Rose
LaPointe

Scan below to
watch lesson



Foundational Skills

Asking questions while reading a book can deepen your understanding of the story. Use the chart below to write questions as you are reading. Go back and reread parts of your book to answer your questions. Write your answers below your question. Be sure to include the page number where you found your answer.

Who	
What	
Where	
When	
Why	
How	



Plot and Compare

Directions: Plot the numbers given on the number line and use $<$, $>$, or $=$ to compare the two numbers (example: $3 < 13$).

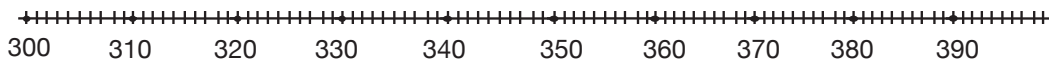
1.



Plot: **681, 618**

Compare (use $<$, $>$, or $=$) : _____

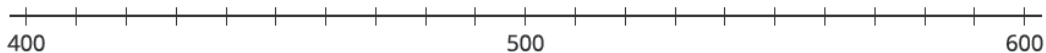
2.



Plot: **315, 366**

Compare (use $<$, $>$, or $=$) : _____

3.



Plot: **560, 460**

Compare (use $<$, $>$, or $=$) : _____

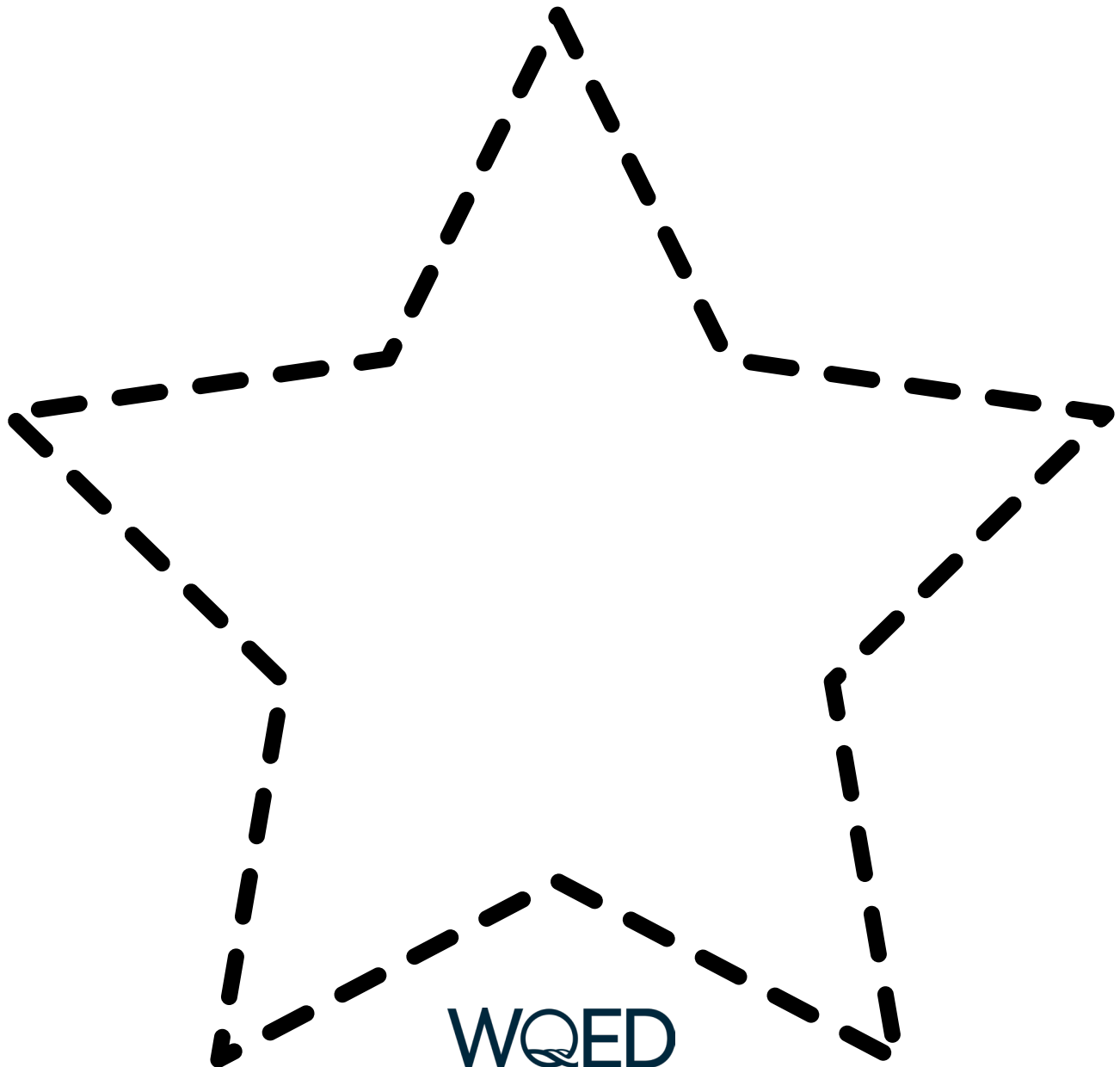
Civic Hero - Paper Star Template

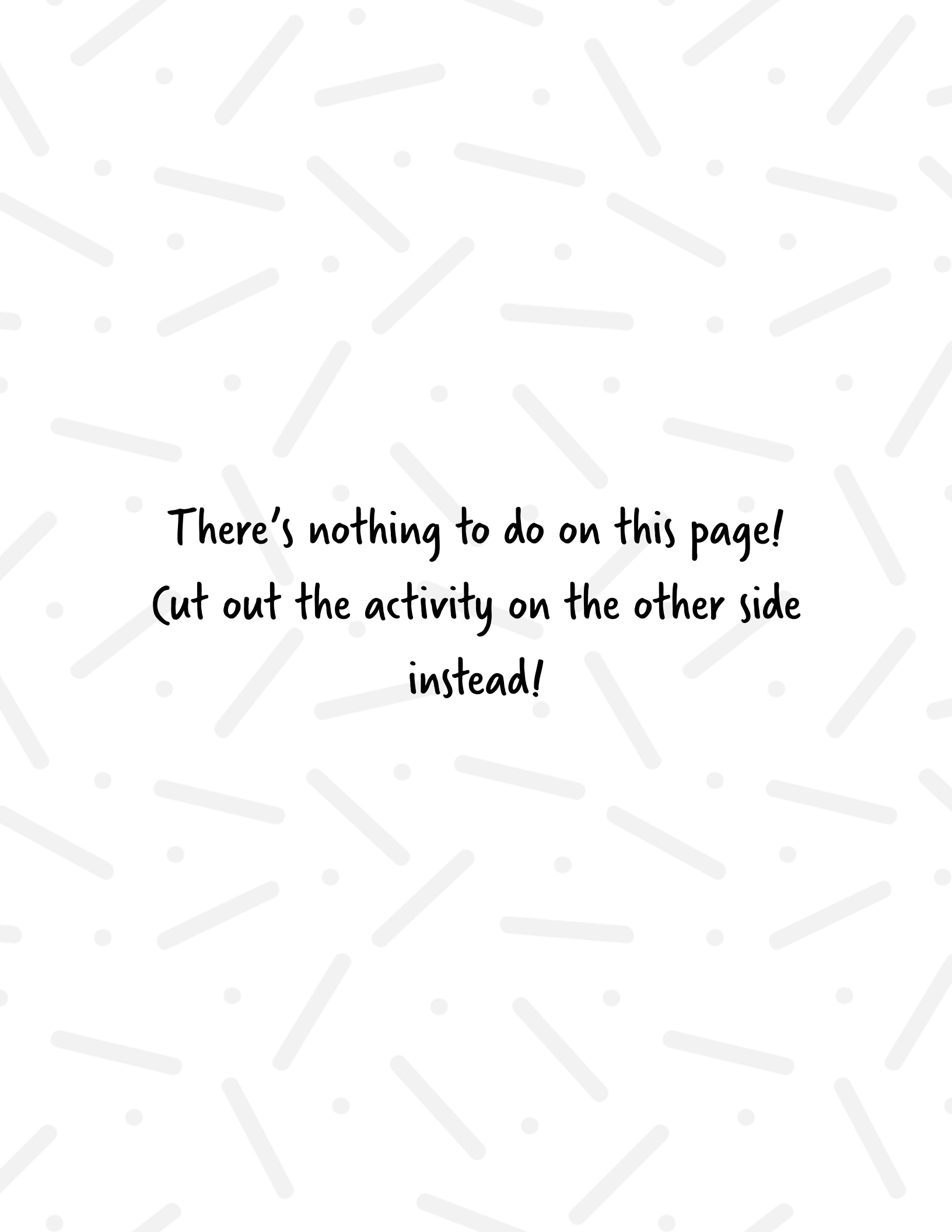
Heroes aren't just in movies—they live in our communities!

Think about someone who helps others and makes a difference, then celebrate them by creating a Civic Hero Badge.

Draw or write about your civic hero. Include

- **The hero's name.**
- **A description of why they are a hero (What did they do? How did they help their community?).**
- **What qualities make them a hero (bravery, kindness, fairness, etc.).**





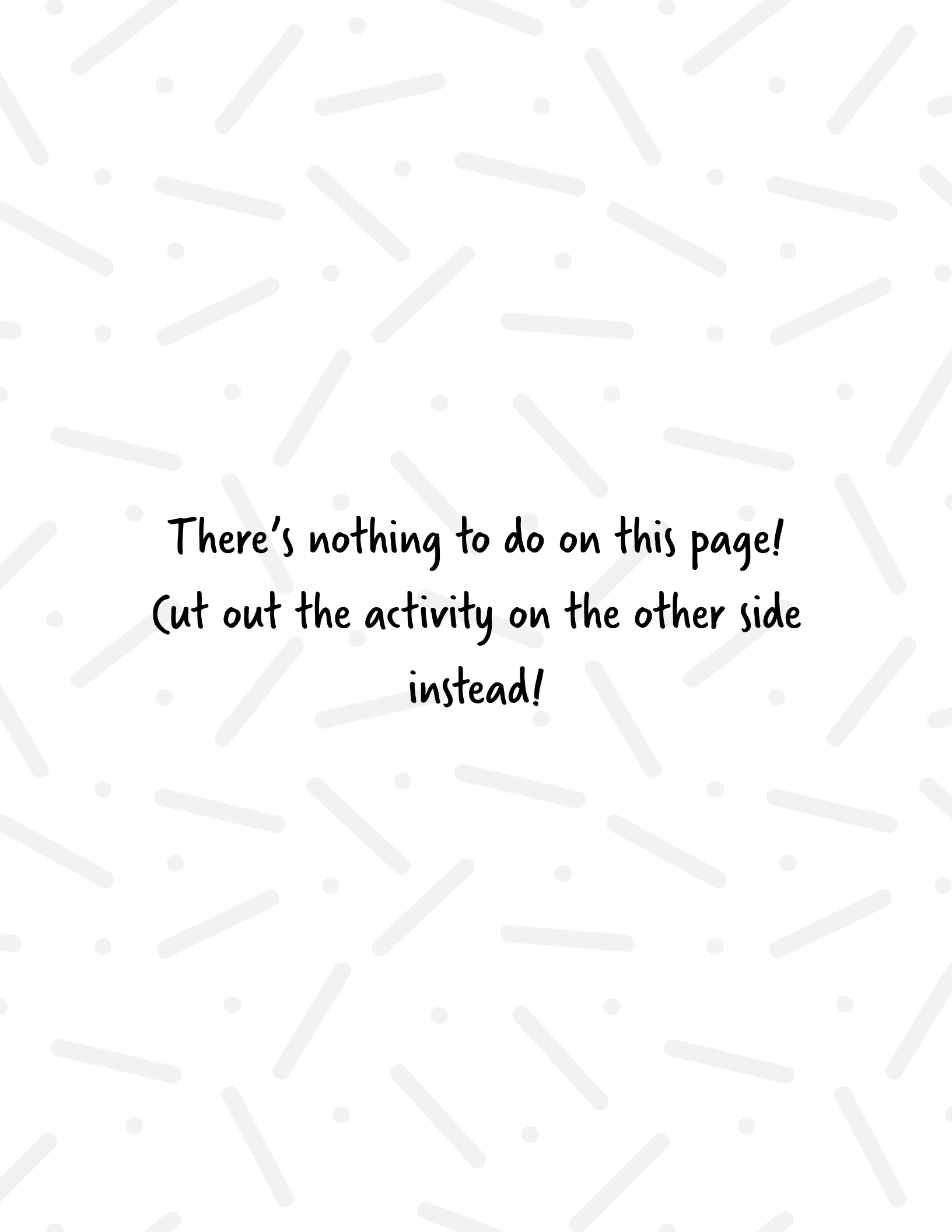
There's nothing to do on this page!
Cut out the activity on the other side
instead!



Fraction Match Up

Directions: Cut out all the cards. Scatter the cards face down in two piles, one with the fraction cards and one with the shape cards. 2 players take turns flipping over one card from each pile, trying to make a match. If you make a match, keep the pair next to you. If you don't make a match, flip both cards over and it's the other player's turn. The player with the most matching pairs wins!

$\frac{5}{6}$	$\frac{1}{4}$	$\frac{7}{8}$
$\frac{3}{8}$	$\frac{2}{6}$	$\frac{1}{2}$



There's nothing to do on this page!
Cut out the activity on the other side
instead!



ACTIVITY GUIDE

Episode 215: Closed, Open, and V-C-E Part 3

Book: *Greta and the Giants* by Zoe Tucker

Scan below to watch lesson



Think About It

When you are reading a story, think about the way the characters act. What patterns and behaviors do they display?

A character's behaviors and patterns help us make predictions and infer the kind of person they are using our schema (background information).

Foundational Skills

Character theory is the name of the character + your thoughts about the character + evidence in the book that provides support for your thoughts.

Try It

Use the graphic organizer below to create a **character theory** about a character in a book that you are reading.

Who is the character?

How does the character act? (patterns and behaviors)

_____ is _____ because

_____.

_____ is _____ because

_____.

_____ is _____ because

_____.



Bubble Up!

Make a bubble mix at home for some outdoor fun!

What you need:

- 1/2 cup liquid dish soap
- 1/4 cup glycerin (from a pharmacy) or corn syrup (from a grocery)
- 2 cups water
- Bowl (or bucket)
- Spoon or chopstick

What to do:

Pour water, dish soap, and glycerin (or corn syrup) into the bowl or bucket. Stir slowly to mix the liquids, but to keep bubbles from forming. Dip the wand you created (see below) into the mixture and blow bubbles!

Create a Wand!

What you need:

- Pipe cleaners
- Your choice of the following:
 - wire coat hanger
 - cookie cutters
 - old sandbox or beach toys
 - kitchen utensils (ask a parent first!)
 - fly swatter

What to do:

AJ Gadgets makes tools from everyday things and you can too! Create a bubble wand – small or supersized. The larger the bubble wand, the larger the bubbles!

A bubble wand has two parts:

1. A shape (circle or square) with a hole in the middle
2. A handle

Use pipe cleaners or wire to attach the two parts of the bubble wand.

Dip the wand into the bubble mixture you created (see above) and blow bubbles!

Find more games and activities at pbskids.org/heroelementary



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WEEK 4: CREATURES

Complete activities and play BINGO!

Scan the QR code or visit [Michiganlearning.org/summer](https://michiganlearning.org/summer) to see video lessons for this week's activities. Use the boxes below to check off activities as you complete them. See if you can get a BINGO!



Watch Read, Write, ROAR!	Find ants working together	Complete Page 49 Activity	Draw a creature habitat	Read about your favorite animal
Find three animal homes	Complete Page 53 Activity	Watch Wimee's World	Complete Page 48 Activity	Complete Page 44 Activity
Complete Page 45 Activity	Build an animal with sticks and string	Free Space	Look for animal tracks	Pretend to be a butterfly
Complete Page 50-51 Activity	Watch Math Mights	Sketch an insect close-up	Complete Page 46 Activity	Complete Page 52 Activity
Complete Page 47 Activity	Look for creatures after rain	Read with a stuffed animal	Watch PBS KIDS	Draw a silly creature





Episode 8, Christina, Andrés, and BoomBox meet a Veterinarian

Color By Number



1=Brown 2=Green 3=Blue 4=Yellow 5=Red



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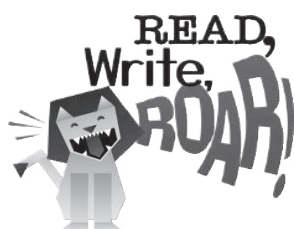


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ACTIVITY GUIDE

Episode 216: Our Round, Round World and Plurals

Book: *It's a Round, Round World* by Ellie Peterson

Scan below to
watch lesson



Mystery Word

A **noun** identifies a person place, thing or idea.

A **singular** noun names one person place, thing or idea, while a **plural** noun names more than one person, place, thing or idea.

Most singular nouns need an '**s**' at the end to become **plural**.

For example,

Singular (1): dog

Plural (more than 1): dogs

Regular singular nouns ending in 's', 'ss', 'sh', 'ch', 'x', or 'z' need an '**es**' at the end to become plural.

For example,

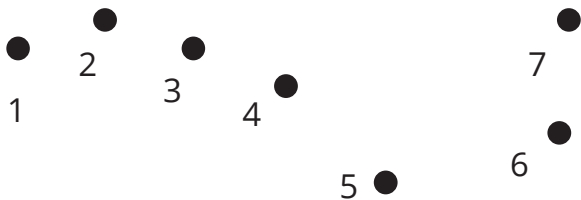
Singular (1): glass

Plural (more than 1): glasses

Try It

A **constellation** is a group of stars that forms a shape or picture.

Connect the dots to see the Big Dipper Constellation shape.



Try It

-s or -es?

Practice making the following nouns plural by adding -s or -es. Remember to look at the ending to decide.

Words ending with 's', 'ss', 'sh', 'ch', 'x', or 'z' need an 'es'

brush__

can__

tent__

bus__

hand__

mess__

pen__

lunch__

box__

pin__

Try It

Observation means to notice or see, or watch or listen carefully.

Find somewhere where you can use your senses to make some observations. Write what you hear 🦻, see 👁️, smell 🤧, or feel 🖐️.



Move Like a Dinosaur



Instructions: Can you move like a dinosaur? Here's a list of movements to get you and your child started! To play, have your child stand at one end of the room and move towards you using one of the prompts below.



WALK like a Theropod

(a bipedal dinosaur that walked on two legs)



MOVE like a Brachiosaurus

(a quadrupedal dinosaur that walked on all fours)



SPRINT like an Ornithomimus

(a dinosaur with long thin legs for sprinting or running really fast)



GLIDE like a Microraptor

(a small bird-like dinosaur that could move smoothly through the air)



SLITHER like a Sanajeh

(a prehistoric snake that slithered or slid around on its belly)



STOMP like a T. rex!

(a powerful dinosaur who walked around with loud, heavy steps)



DIVE like a Hesperonis

(a dinosaur that was good at diving deep underwater for fish)



FLY like a Pteranodon

(like Tiny, Shiny, and Don, Pteranodons could fly through the air very easily)



SWIM backwards like a Michelinoceras

(a squid-like creature who lived in the ocean and swam backwards)



HOOT like a Corythosaurus

(a dinosaur with a large crest on top of its head that made a hooting sound like a horn)

Find more games and activities at pbskids.org/dinosaurtrain

Funded by:



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Which Swallowtail Will You Create?

Carl learned how to tell male and female swallowtail butterflies apart. Can you find what's different between the two butterflies?

Now, it's your turn! Pick your favorite swallowtail butterfly. Draw the matching shapes and colors on the butterfly pattern.



The male butterflies have larger yellow spots on their wings.



The female butterflies have brighter blue markings.



Produced by:



Find more games and activities at pbskids.org/carl

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ACTIVITY GUIDE

Episode 211: Repurposing Metal and Simple Compound Words

Book: *Metal Eco Activities* by Louise Nelson

Scan below to watch lesson



Read It

A compound word is two smaller words that are joined together to make a new word.

out + side = outside

Pick two of the words from this word bank in order to create the compound word that matches the picture.

butter bath rain
coat tub fly







Think About It

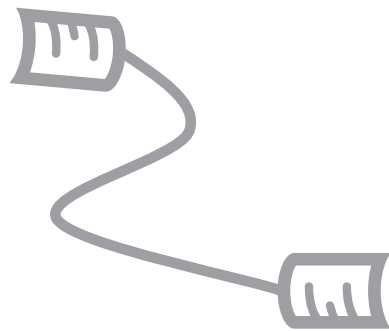
Properties of Metal:

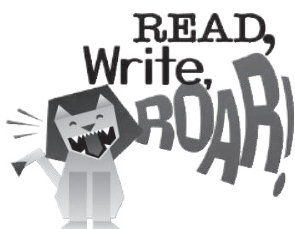
- Can be thick or thin
- Made by people from a natural material
- Hard and strong
- Waterproof
- Opaque /NOT see-through
- Can be made into many shapes and colors

Take a look around you to see what materials made of metal you can find. Collect these materials and share them with someone in your home.

Try It

Create your own tin can telephone.





ACTIVITY GUIDE

Episode 207: Closed Syllables and Climate Challenges

Book: *Magic School Bus and the Climate Change Challenge* by Bruce Degen

Scan below to watch lesson



Read It

One strategy readers can use to read a word more accurately is to break it into syllables, or word parts.

Rules for Dividing Syllables

Every syllable has one vowel or vowel team.

- Place a dot under each vowel
- Underline any vowel teams,
- Divide between two consonants

Foundational Skills

A **syllable** is a word part that has one, and only one vowel sound. Sometimes a syllable will have more than one of these vowels, but they work together to make only one sound.

A **closed syllable** is a special kind of syllable. Closed syllables have **ONLY** one vowel that is followed by one or more consonants. Closed syllables **USUALLY** have vowels that make their short vowel sound.

Try It

Use the rules for dividing syllables above to break the words into word parts.

plastic

landfill



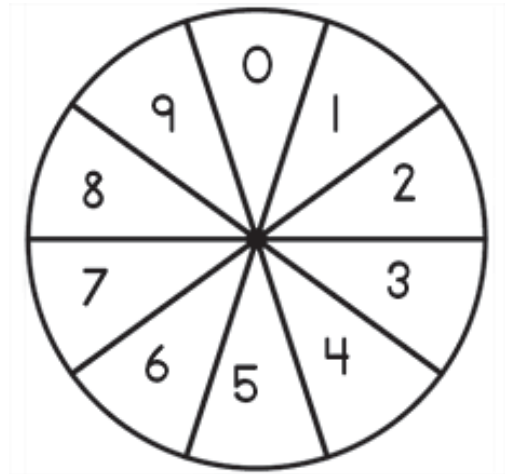
Which is Greater?

Materials:

- spinner (poke a paperclip through the template to the right)
- place value board (one for each partner)

Directions:

1. Work with a partner to try to make the greatest 3-digit number you can.
2. Player 1 spins. Player 1 decides if the number should go in the ones, tens, or hundreds place to make the largest 3-digit number. (ex: I rolled a 2 and I think it should go in the ones place because it is a low number. In the hundreds place, it would only be 200.) Use the place value board to build your number.
3. Player 2 repeats step 2. Continue taking turns spinning until both players have built their 3-digit number. Record your numbers on the chart below.
4. Work with your partner to compare the 2 numbers and fill in $<$, $>$, $=$. The player with the greater number wins! Play 5 rounds and the best out of 5 wins!



Round	Player 1	Symbol < > =	Player 2	Winner
1				
2				
3				
4				
5				

Place Value Boards

hundreds	tens	ones

hundreds	tens	ones



MAKIN' TRACKS WITH PLAY DOUGH!

DIFFICULTY: EASY

When you walk in wet sand, snow or mud, you leave behind a footprint. Animals do, too! We call those prints, "tracks." Next time you're exploring, look for tracks on the ground!

You can also make your own tracks to compare with friends, your pet, or one of the Nature Cat gang! Using play dough, make YOUR nature tracks to create an artistic masterpiece!



MATERIALS

-  Play dough
-  Rolling pin
-  Washable paint and paintbrush (optional)



CAPTURE YOUR TRACKS

- 1 Make two balls with your dough.
- 2 Roll out each dough ball on a flat surface until it is a little bit bigger than your foot.
- 3 Ready? Press your hand into one piece of the dough.
- 4 Now repeat with a foot (or a patient pet.)
- 5 Let it dry and add some color with paint!



Find more games and activities at pbskidsforparents.org



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Locate the Fraction

Directions: Partition each number line. Locate and label each fraction.

$$\frac{1}{4}$$



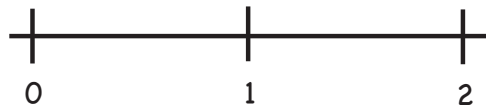
$$\frac{1}{8}$$



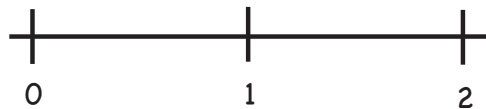
$$\frac{1}{3}$$



$$\frac{1}{4}$$



$$\frac{1}{6}$$



$$\frac{1}{8}$$



WEEK 5: ENGINEERING

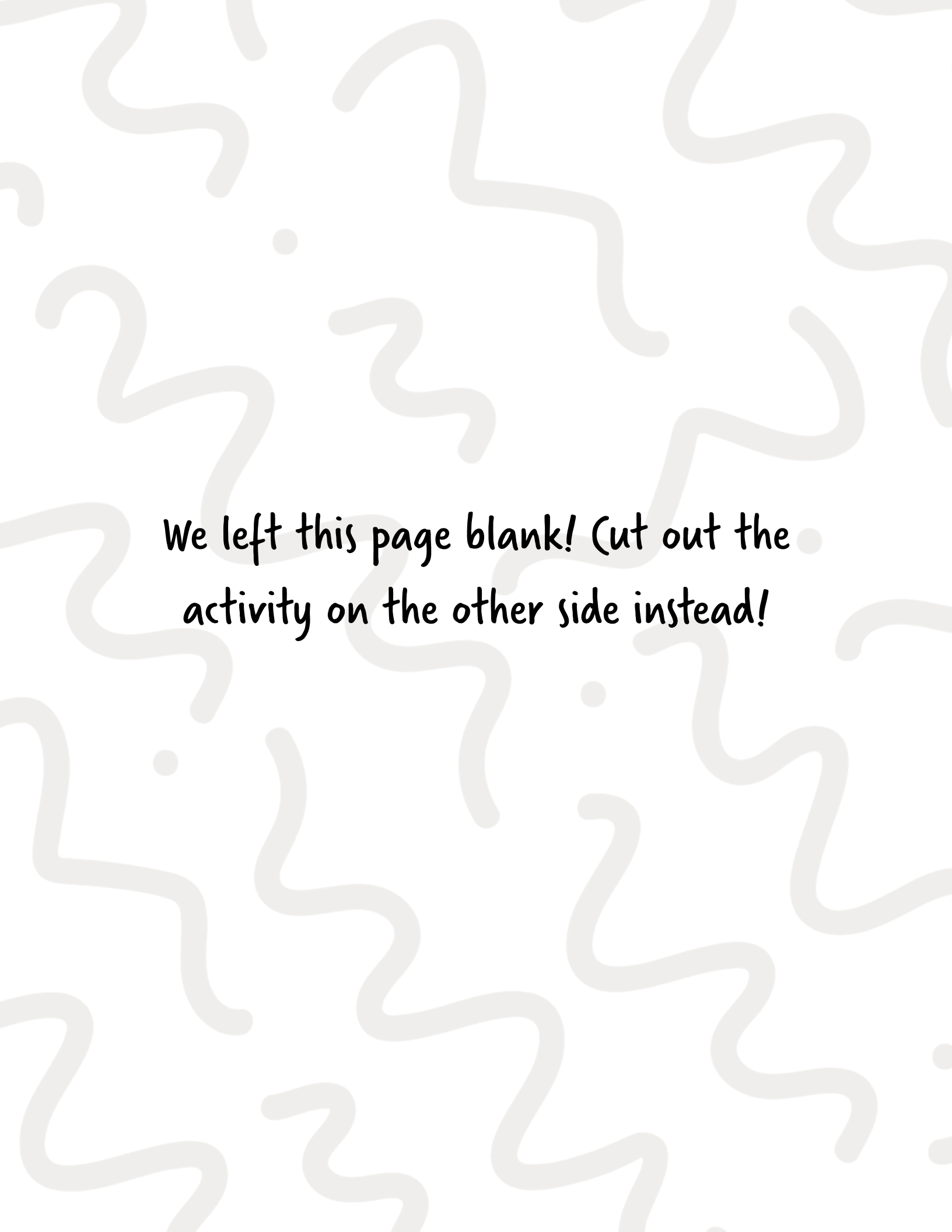
Complete activities and play BINGO!

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Watch Read, Write, ROAR!	Draw your dream invention	Read in a fort that you build	Complete Page 60 Activity	Build a bridge with books
Invent a useful tool	Complete Page 59 Activity	Watch Wimee's World	Race two different things	Complete Page 64 Activity
Learn about your hometown	Complete Page 62-63 Activity	Free Space	Complete Page 56-57 Activity	Design a marble maze
Complete Page 58 Activity	Watch Math Mights	Visit a new place	Build some- thing with a friend	Fix something that broke
Write one new idea	Build a tall structure	Read a chapter book	Watch PBS KIDS	Complete Page 61 Activity





We left this page blank! Cut out the
activity on the other side instead!

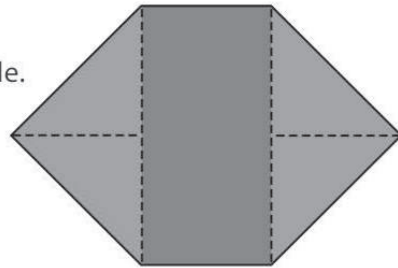


The Hexagon Challenge

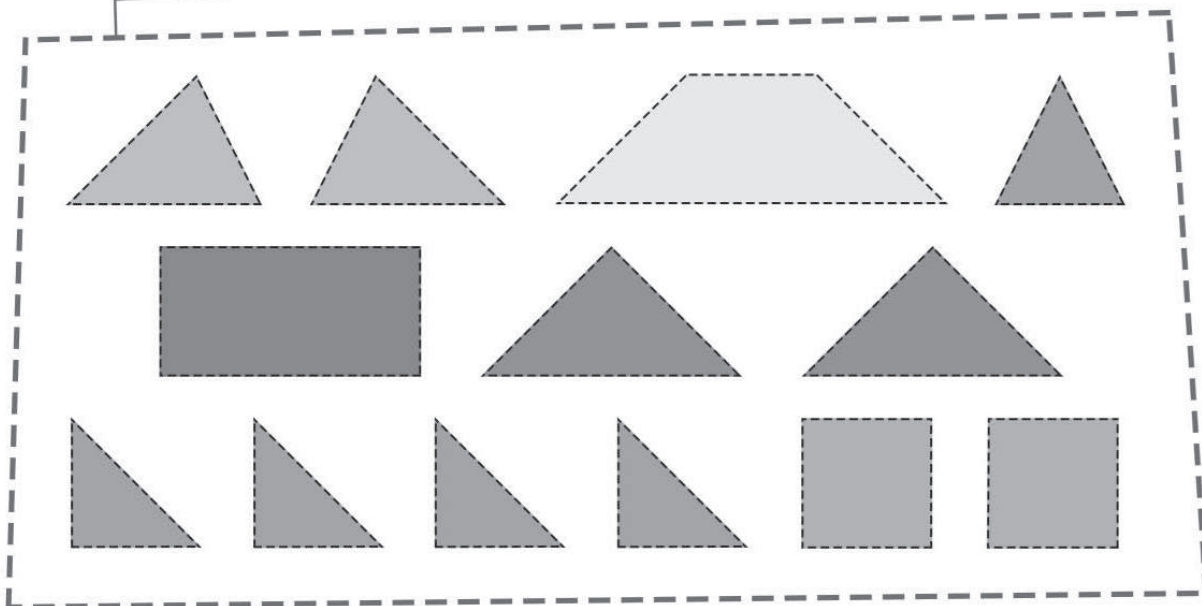
Use your Odd Squad agent skills to solve
The Hexagon Challenge. Print out the two pages.

1. Cut out all the shapes from the Shape Box.
2. On the next page, mix and match your shapes to make a hexagon.
3. Record how you did it by drawing the lines of each shape you used like in the example at the top.
4. Reuse your shapes again and again to make more hexagon patterns.
Try to find **8 different** ways to make a hexagon.

Here's a hexagon made with 4 triangles and a rectangle.



Shape Box



For more printables, go to pbskidsforparents.org

Funded by:

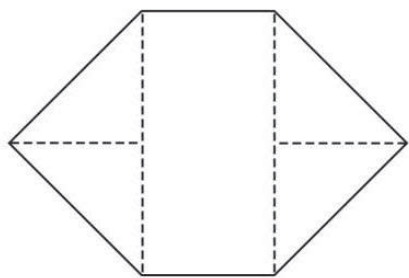


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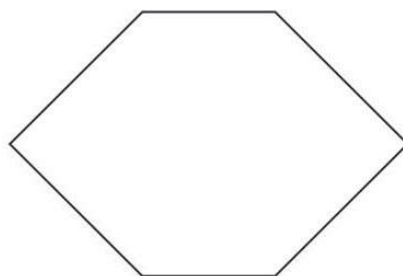
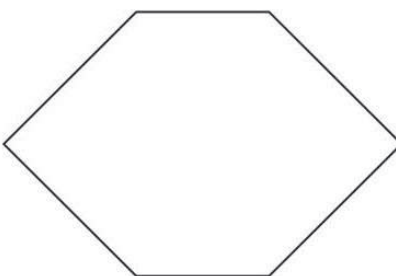
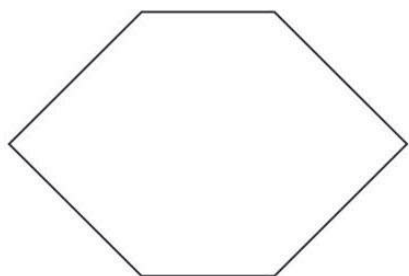
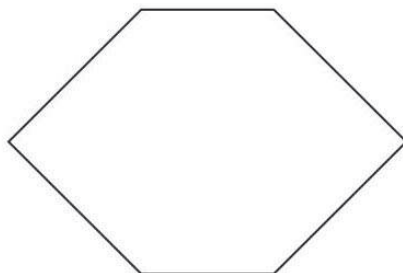
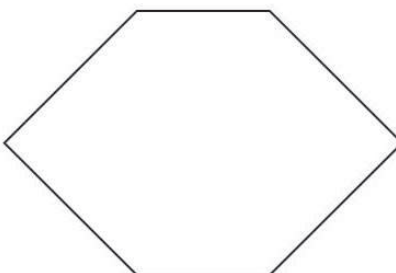
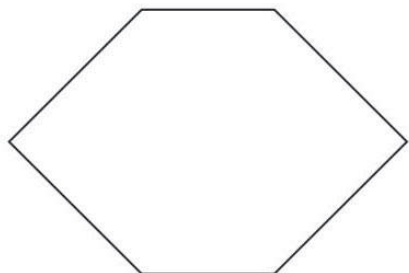
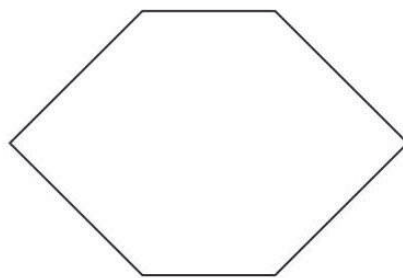
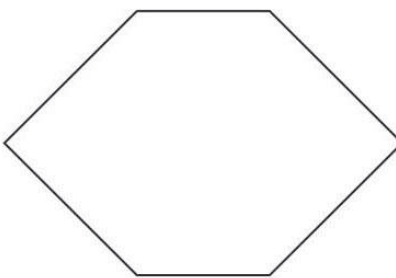




The Hexagon Challenge



Example



When you are finished with the challenge, check out some possible solutions at www.fredrogers.org/odd-squad-hexagon-solution/

For more printables, go to pbskidsforparents.org



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ACTIVITY GUIDE

Episode 210: Closed and Open Syllables

Book: *Coyote's Soundbite: A Poem for our Planet* by John Agard

Scan below to watch lesson



Read It

A few years ago, lead was found in Flint's drinking water. Many kids got sick because they had been drinking the water for a long time. Some kids had skin issues and even changes to their brains, making it hard for them to learn. Furthermore, it's happening in Benton Harbor and many cities in Michigan right now!

Michigan needs to check its water to make sure kids are not being hurt from their drinking water. One child in one family is too many!

Foundational Skills

An **open syllable** is a special kind of syllable. Open syllables have one WRITTEN vowel that is NOT followed by one or more consonants. Open syllables USUALLY have vowels that make their long vowel sound.

Rules for Dividing Syllables

Every syllable has one vowel or vowel team.

- Place a dot under each vowel
- Underline any vowel teams,
- Divide between two consonants

Try It

Go through and underline each sentence in the text above according to the color code below:

Green = topic sentence

Yellow = important information
(story telling parts)

Blue = details (thoughts; feelings;
description sentences)

Think About It

Look at this word. Each syllable is written in a different color. Which syllable in this word is not "closed in" by a consonant or consonants at the end?

newspaper

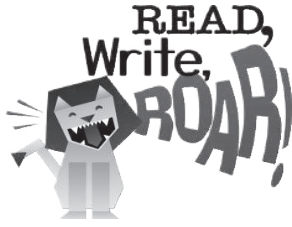
The second syllable ends with the vowel Aa. It is an open syllable.



Near Doubles with Abracus

Directions: Use the ten frames to solve the problems.

Ten Frame	Double	Double + 1
	$7 + 7 = \underline{\quad}$	$7 + 8 = \underline{\quad}$
	$4 + 4 = \underline{\quad}$	$4 + 5 = \underline{\quad}$
	$8 + 8 = \underline{\quad}$	$8 + 9 = \underline{\quad}$
	$3 + 3 = \underline{\quad}$	$3 + 4 = \underline{\quad}$
	$6 + 6 = \underline{\quad}$	$6 + 7 = \underline{\quad}$



ACTIVITY GUIDE

Episode 212: Even More Closed and Open Syllables

Book: *Coyote's Soundbite: A Poem for our Planet* by John Agard

Scan below to watch lesson



Read It

An accurate reader pays close attention to every letter in a word.

Look at each word below. Think about the sounds that the letters make. Read the word out loud.

pan

pant

plant

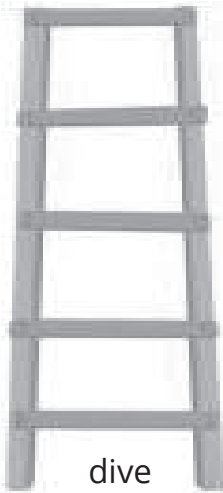
Think About It

As you are reading a book, you may have different reactions to the words on the page. Sometimes you may feel happy while other times you may feel sad, angry, or confused.

After reading a book and experiencing different feelings, you can respond by writing a sentence that provides evidence from the book to backup your reaction.

Try It

Start at the bottom of the ladder. Follow the instructions to change each word. Write the word in the space provided.



Add a **d** at the end

Change the **f** to a **t**

Change the **v** to a **r**

Change the **d** to a **f**

dive

Write It

Use the sentence starters below to write about a book that you have read.

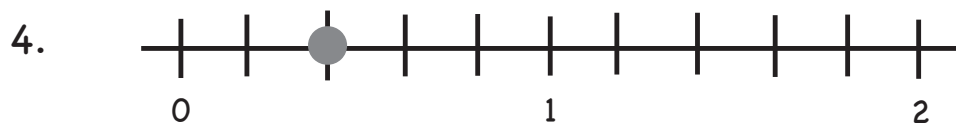
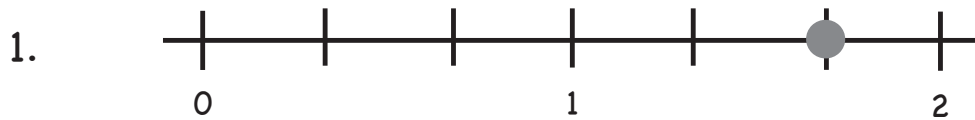
This book made me happy because

This book made me think because



Guess The Fraction

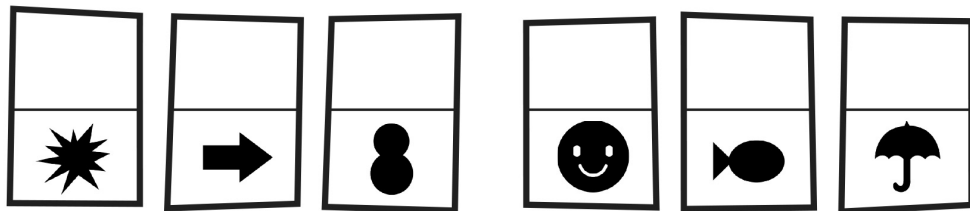
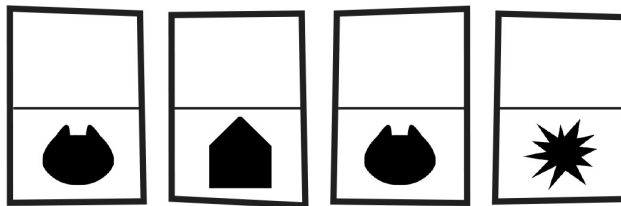
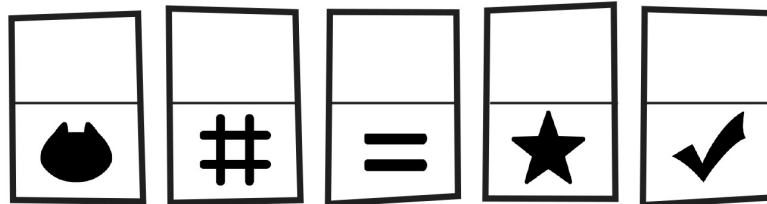
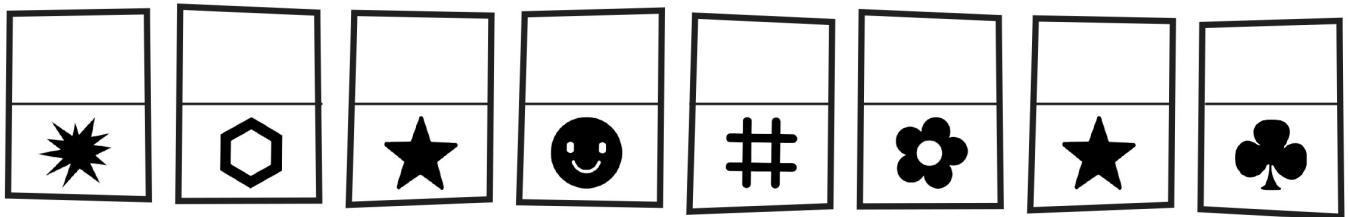
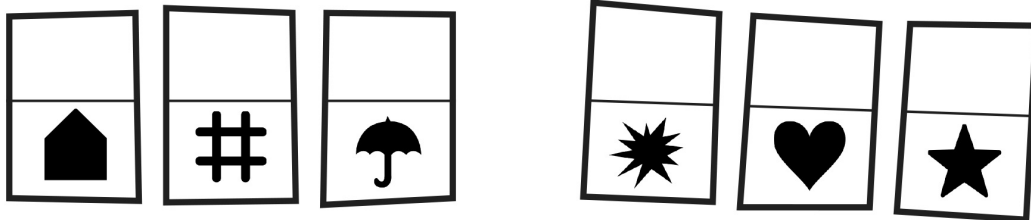
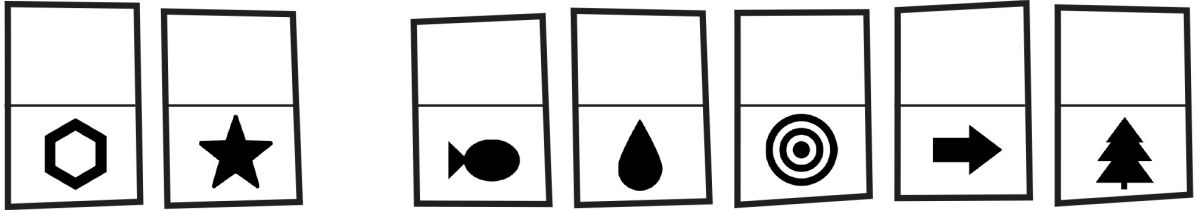
Directions: Guess which fraction is displayed with a dot on the number line. Label the fraction.





Secret Message Symbols

Use the code on the next page to reveal a secret message.
Match the symbols and letters to find out what it says!



Find more games and activities at pbskids.org/lyla

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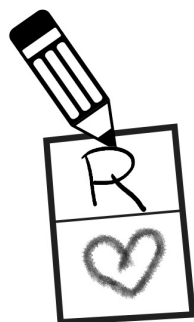
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Secret Message Symbols

THE SECRET CODE

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	!	?	,	.



EXAMPLE

Use the symbol code to write your own secret message below.
Give it to someone else to see if they can decode your message into words!

Find more games and activities at pbskids.org/lyla

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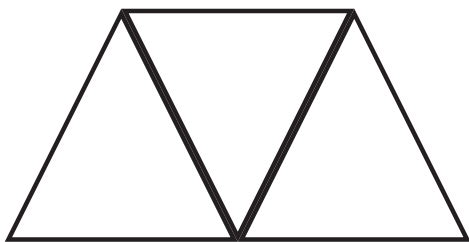
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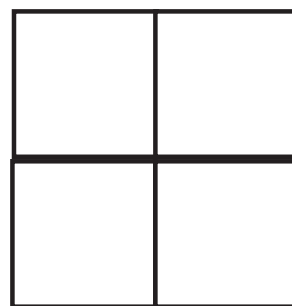


Describe The Shape

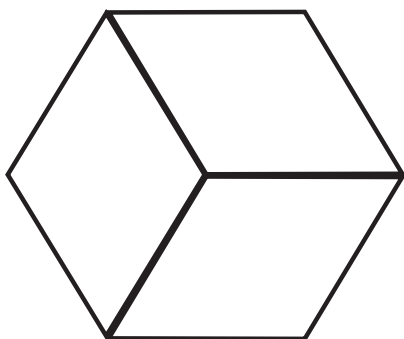
Directions: Fill in the blanks. (Example: The rectangle is made up of 3 squares.)



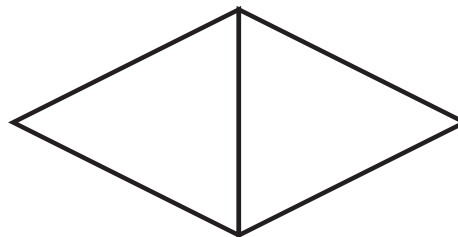
The _____ is made up
of _____.



The _____ is made up
of _____.



The _____ is made up
of _____.



The _____ is made up
of _____.

WEEK 6: THE GREAT OUTDOORS

Complete activities and play BINGO!

Scan the QR code or visit [Michiganlearning.org/summer](https://michiganlearning.org/summer) to see video lessons for this week's activities. Use the boxes below to check off activities as you complete them. See if you can get a BINGO!



Watch Read, Write, ROAR!	Complete Page 75 Activity	Find three different leaves	Complete Page 72 Activity	Go on a short nature walk
Balance on a log	Complete Page 66 Activity	Watch Wimee's World	Draw some- thing you see outside	Complete Page 69 Activity
Find every rainbow color outside	Complete Page 73 Activity	Free Space	Build some- thing with sticks	Complete Page 76 Activity
Complete Page 68 Activity	Watch Math Mights	Find a flower. Draw it	Complete Page 67 Activity	Sit quietly and listen outside
Pick up five pieces litter	Find a shady tree. Read there	Stack five different size rocks	Watch PBS KIDS	Complete Page 70-71 Activity





Episode 4, Christina and Andrés meet a Wind Turbine Service Technician



Complete The Scene

Draw a picture of a wind turbine. A wind turbine uses wind to make electricity. It looks like a giant fan with at least three blades. Can you find one in this picture? While you listen, color it in and then draw more!



What kinds of things do you use every day that need electricity?

Original Production Funding for Jamming on the Job is provided by a Ready To Learn Grant from the U.S. Department of Education through the Corporation for Public Broadcasting.

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ACTIVITY GUIDE

Episode 204: Earthquakes, Eruptions and "thr" words

Book: *Earthquakes, Eruptions, and Other Events that Change Earth* by Natalie Hyde

Scan below to watch lesson



Write It

Thr- is a blend that usually comes at the beginning of a word. It makes the /thr/ sound like in **throb**. Use a **thr-** word from the word box to complete each sentence.

through throw throat thrill three thread throne

1. To pitch a ball, you _____ it.
2. This is the number that comes next in this sequence. one, two ,_____.
3. A king has a special chair that he sits in. It's called a _____.
4. An airplane can fly _____ a cloud.
5. Someone who is sewing is most likely going to use a needle and _____ to stitch the sweater up.
6. It was such a _____ to ride on that big roller coaster.
7. I was nervous and had to clear my _____, before I began my speech.

Draw It

Alliteration is when two or more words close together in a group of words all start with the same letter or sound. Read the following sentence out loud. Draw a picture to go with the sentence.

Shelly shows sheep how to shine shoes.



Make a Bird Feeder



What You Need:

- Pinecone, paper towel holder or piece of bread
- Peanut butter or honey
- Your choice of the following:
 - Raisins
 - Cranberries
 - Plain popped popcorn
 - Sunflower seeds
 - Shelled plain peanuts
 - Mixed birdseed
- Safety scissors
- Wire, dental floss or cotton string

What to Do:

- 1. Select a bird feeder base:** Pinecones are a popular foundation for a bird feeder, but you may also use an empty paper towel roll or a stale piece of bread.
- 2. String it up:** Run a wire, dental floss or cotton string through your bird feeder. Secure the two ends together to make a loop.
- 3. Make it sticky:** Coat the base with peanut butter. If you know someone who has peanut allergies, use honey instead.
- 4. Add some goodies:** Roll the feeder in raisins, cranberries, unsalted and unbuttered popcorn, sunflower seeds, shelled plain peanuts or mixed birdseed.
- 5. Hang it up:** Place your bird feeder on a hook or on a tree branch outside your window. Discover which birds are popular in your neighborhood, research what they like to eat, and make a bird feeder for them.
- 6. Keep a wildlife journal:** Record what kind of birds and other animals come to visit your feeder!



Find more games and activities at pbskidsforparents.org

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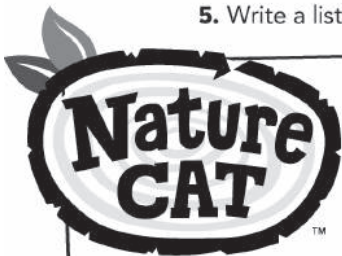
Make Leaf and Bark Rubbings

Instructions

1. You'll need one or more crayons with the labels removed, some cardboard or a clip board and some masking tape to help hold leaves or bark in place.
2. When you're walking outside, collect a few fallen leaves, some bark or other natural materials. It's best if you find leaves or bark where you can feel bumps or ridges.
3. Once you've found your leaves, bark or other items, use tape to secure the edges of the leaves, bark or other materials to the clipboard or cardboard so that they will stay in place while you make your rubbing.
4. Place this paper over the leaves and bark and lightly rub the side of the crayon over the surface of the paper, just hard enough so that the texture shows.
5. Write a list of words to describe how the leaf or bark feels or looks like.

What You'll Need:

- Trees
- Plain white paper
- Crayons with label removed
- Masking tape (optional)
- Cardboard or clipboard
- Paper bag for collecting leaves



Find more games and activities at **pbskidsforparents.org**

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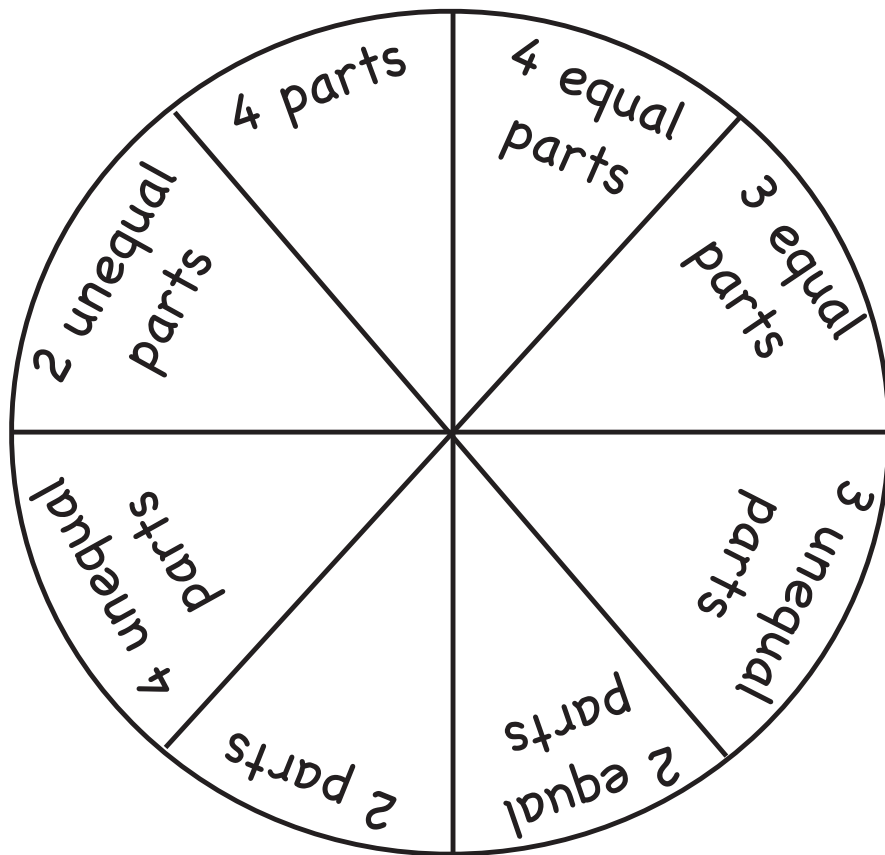
Split The Shape

Materials:

1. spinner (you will need a pencil and paperclip to create the spinner)
2. recording sheet
3. 2 players

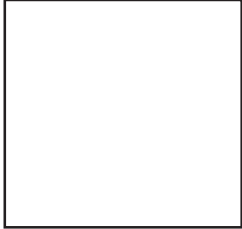
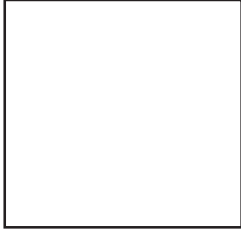
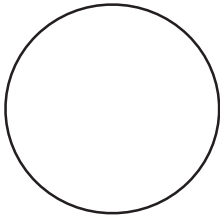
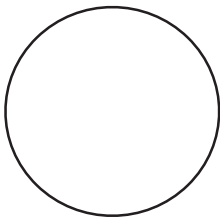
Directions:

1. Player 1 spins and splits their shape.
2. Compare the shapes.
3. If you made equal parts, name the parts using halves, thirds, or fourths on the recording sheet.
4. Player 2 repeats steps 1-3. Continue taking turns until the recording sheet is filled in.





Recording Sheet

Player 1	Player 2
 _____	 _____
 _____	 _____
 _____	 _____
 _____	 _____



ACTIVITY GUIDE

Episode 201: Earth's Landforms and -tch words

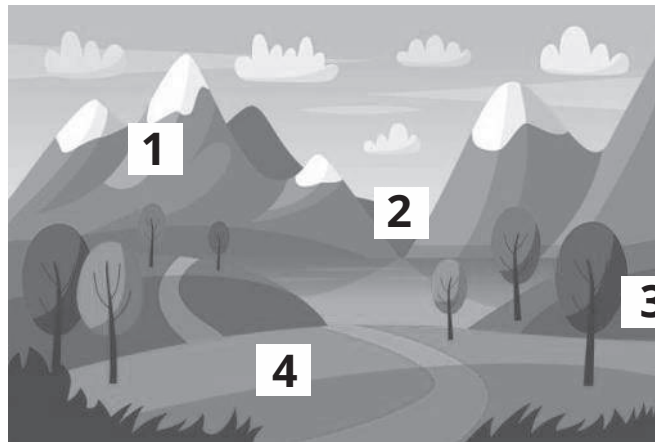
Book: *Earth's Landforms and Bodies of Water* by Natalie Hyde

Scan below to watch lesson



Phonics Skills

Landforms are natural features on the Earth's surface. Look at the numbers on the picture below. Write a word from the *Words to Know* box to label each number with the correct landform.



1. _____ 2. _____
3. _____ 4. _____

🔍 What types of landforms do you have where you live?

Words to Know

- **mountain** - a high raised landform that has sloping sides that form a peak.
- **hill** - a high raised landform that is smaller than a mountain with a rounded top.
- **valley** - an area found between raised landforms such as mountains or hills.
- **plains** - large, flat areas of land usually covered in grasses.



Join the Club!

Bookmark

Membership Card




Exploring Club Pledge

An explorer is brave!
An explorer is kind!
An explorer is curious!
Who knows what we'll find!



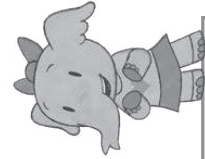
Visit pbskids.org/elinor

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(name)



Exploring Club Member




↑ fold

Five Senses Check



What can I smell with my nose?



What can I taste with my mouth?



What can I hear with my ears?



What can I feel with my skin?



What can I see with my eyes?

Summer Activity Book | Lower Elementary | Michigan Learning Channel | 73

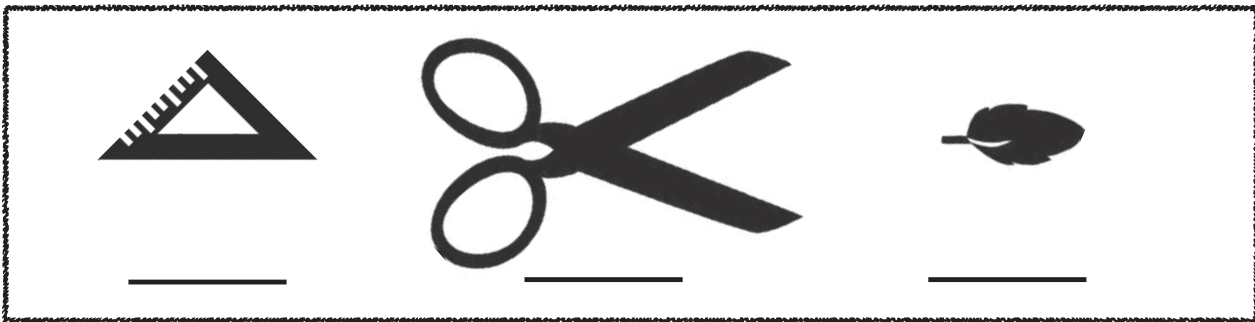
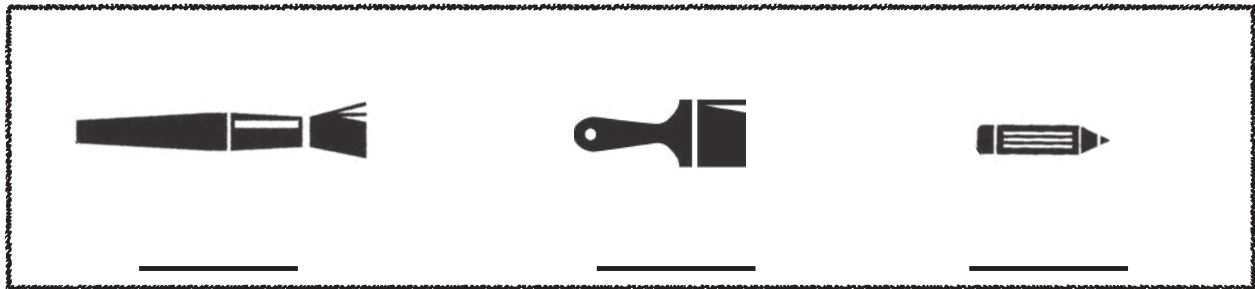


We left this page blank! Cut out the
activity on the other side instead!

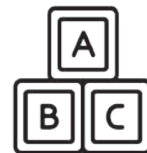
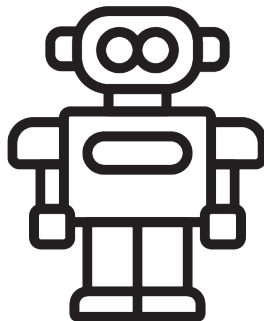
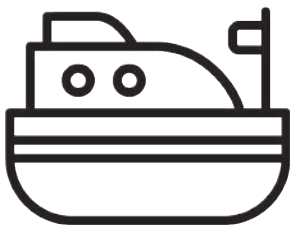


Compare The Length

Directions: Put the objects in order from shortest to longest. Label the shortest object 1, label the middle object 2, and label the longest object 3.



Directions: Compare the 3 objects below. Fill in the blanks to complete the sentence.



The _____ is taller than the _____ and _____.



ACTIVITY GUIDE

Episode 215: Protecting Our Planet

Scan below to
watch lesson



Read It

Read the following passage out loud.
Underline the compound words.

Yesterday, in art class, we were making posters out of cardboard. We used markers, magazines, and watercolor paints. Our posters were all about reducing, reusing, and recycling. We brainstormed ideas on the whiteboard and on notebook paper. When we finished, we posted our classwork in the hallways, the lunchroom, and on the playground.

Words to Know

Compound Word - a word that is made up of two or more smaller words

Types of Compound Words:

A **simple compound word** has two syllables
sun + shine = sunshine

A **complex compound word** has *more* than two syllables.

after + noon = afternoon

Read It

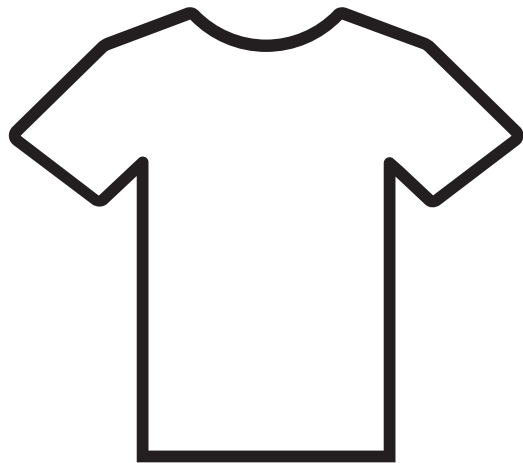
Choose one compound word that you underlined above. Write each word that makes up the compound word on a blank below. Rewrite the word from the paragraph on the next line..

_____ + _____
word word

Is this word a simple or complex compound word?

Try It

Design your own tee shirt to promote reducing, reusing, and recycling.



WEEK 7: WHEN I GROW UP

Complete activities and play BINGO!

Scan the QR code or visit [Michiganlearning.org/summer](https://michiganlearning.org/summer) to see video lessons for this week's activities. Use the boxes below to check off activities as you complete them. See if you can get a BINGO!



Watch Read, Write, ROAR!	Learn something new from a friend	Complete Page 83 Activity	Ask an adult about work	Complete Page 79 Activity
Complete Page 88 Activity	Complete Page 78 Activity	Watch Wimee's World	Complete Page 84 Activity	Draw your future job
Complete Page 86-87 Activity	List three jobs you like	Free Space	Complete Page 89 Activity	Pretend to build something
Complete Page 80 Activity	Watch Math Might	Learn a tool someone uses	Teach someone something new	Complete Page 81 Activity
Read about a job	Complete Page 82 Activity	Shadow a family member working	Watch PBS KIDS	Complete Page 85 Activity





peg + cat

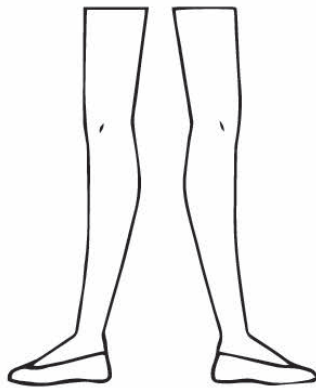
In 2015, Misty Copeland became the first Black principal ballerina with the American Ballet Theater. Learn the five basic foot positions used in ballet. Create a dance using the positions and add leaping and twirling to your moves just like Misty!



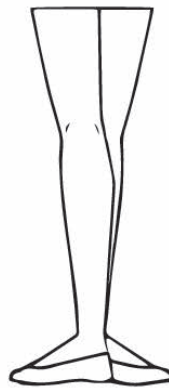
The Five Ballet Positions



1



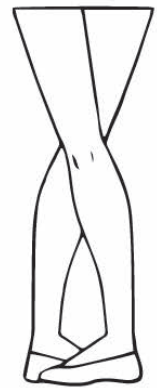
2



3



4



5



Find more games and activities at pbskidsforparents.org

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ACTIVITY GUIDE

Episode 208: Authors Share Writing

Scan below to watch lesson



Sort It

Blends are created when two consonant letters blend together at the beginning of words, but we can still hear each of their sounds.

Read the words in the word box below. Write each word under their correct S-blend.

star spend swam spin sweater storm swim spot stop

sp	sw	st

Read It

Read the following sentences out loud. Underline the words with the **sp**, **sw**, and **st** blends.

1. We looked for a spot on the crowded beach.
2. "A storm is coming!" said Matt.
3. Other people continued to swim.

Draw It

Draw a picture to match the sentence.

I wore a sweater during the winter storm.

Look out for words with the **sp**, **sw**, and **st** blends when reading your favorite books.



Episode 7, Christina, Andrés, and BoomBox meet an Online Merchant

T-Shirt Designer



*What are some of your favorite things or things to do?
Design your own T-shirt with something you like.*



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Equivalent Fraction Roll



Materials: 6 dice

Directions:

1. Player 1 rolls 2 die and makes a fraction with the 2 amounts shown on the dice. If you roll any fives, they count as a wild card and can be any number you'd like.
2. Player 2 rolls 6 dice and tries to create a fraction that is equivalent to Player 1's fraction. (remember fives are wild)
3. If you cannot, re-roll as many number dice as you'd like. You can re-roll twice.
4. If you can make equivalent fractions, record your statement and show or explain how you know the fractions are equivalent
5. You get 1 point for each pair of equivalent fractions you write.
6. Repeat steps 1-5 starting with Player 2. Play 8 rounds.

	Equivalent Fractions	If an equivalent fraction was created, circle the player who gets the point.		Equivalent Fractions	If an equivalent fraction was created, circle the player who gets the point.
Round 1	=	Player 1 or Player 2	Round 5	=	Player 1 or Player 2
Round 2	=	Player 1 or Player 2	Round 6	=	Player 1 or Player 2
Round 3	=	Player 1 or Player 2	Round 7	=	Player 1 or Player 2
Round 4	=	Player 1 or Player 2	Round 8	=	Player 1 or Player 2

Bianca's Body Math

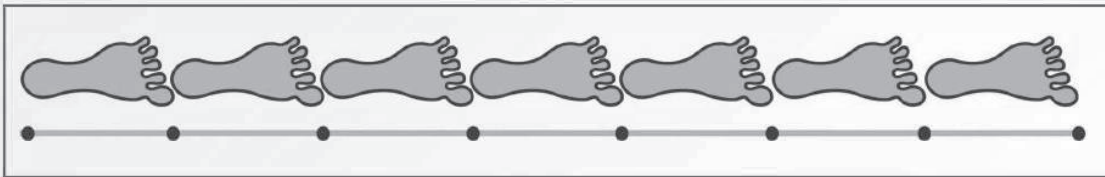
Did you know that for a lot of people, their foot is the same length as their forearm? Find out if it's true for you!

YOU NEED

piece of string (a little longer than your height)
black marker

DIRECTIONS

First, start at the end of your string and mark off seven of your foot-lengths.



Now use the string to measure the body parts listed below. Have a friend help. Be sure to measure from one black mark on the string to the next.



Measure

About how many foot lengths?

From wrist to elbow (forearm)

Around widest part of your fist

Around your forehead

From head to toe

Who Knew?

A person's height is often the same as his or her arm span (arms out to side, middle fingertip to middle fingertip). Is yours?

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ACTIVITY GUIDE

Episode 208: Garbage vs. Recycling and Making Words

Book: *Garbage or Recycling?* by Deborah Chancellor and Diane Ewen

Scan below to watch lesson



Think About It

Read the following statements,
Which are true and which are false?

It's impossible to recycle a soda pop can. _____

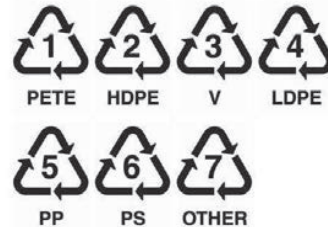
Over half of the garbage we throw out can be recycled. _____

Plastic garbage often ends up in the sea. _____

Words to Know

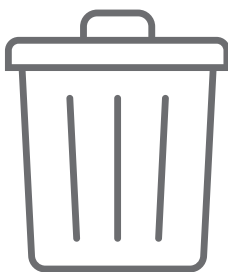
Recycling is when we take materials that we were going to throw away and put them through a process so they can be made into something else.

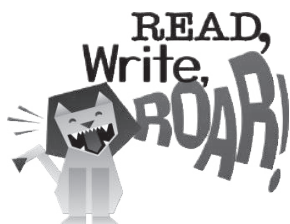
These symbols are found on **plastic** items that can be recycled.



Draw It

Look at each object. Decide if it can be recycled or if it should be thrown in the garbage. Draw a line from each object to where it belongs.





ACTIVITY GUIDE

Episode 210: Repurposing Plastic and -ough- Words

Book: *Plastic Eco Activities* by Louise Nelson

Scan below to watch lesson



Phonics Skills

Spelling Pattern **o-u-g-h**

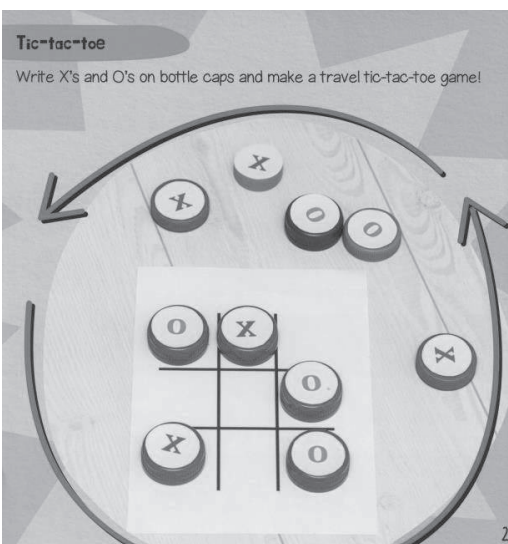
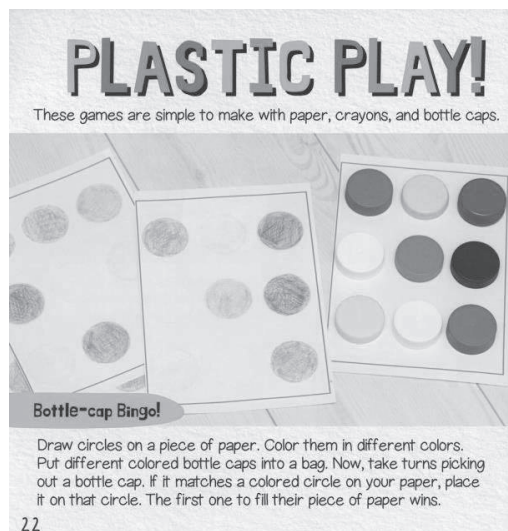
When a word contains the spelling pattern **o-u-g-h**, those letters put together can represent seven different sounds. The chart on the right has words with four of the most common sounds.

Read the word on the left side of the chart. Listen to the ending sound. Read the word on the right side of the chart using the same ending sound from the first column for the o-u-g-h spelling pattern in the word.

<u>Matching sounds</u>	<u>Words with o-u-g-h</u>
no	although dough though
you	through
off	cough trough
stuff	enough rough tough

Reuse It

The book, *Plastic Eco Activities*, by Louise Nelson, shows us a couple of ideas for making games out of recycled materials.



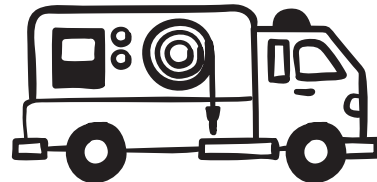
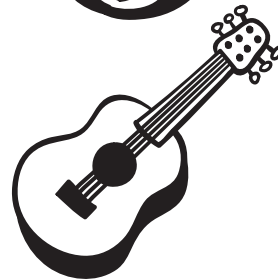
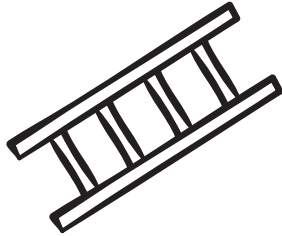


Episode 2, Christina and Andrés meet Leslie, a Prescribed Fire Manager

Match It!



While you listen, help Christina and Andrés find the items that go together.
Draw a line from an item on the left side to an item that matches it on the right.



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Spin to Win!



Materials: 6-sided die, 2 different color crayons, recording sheet

Directions:

1. Player 1 chooses a denominator for the first round: 2, 3, 4, 6, or 8.
2. Each player rolls a die for the numerator of their fraction.
3. Use the recording sheet. Each player, locate and label your fractions on the same number line.
4. The greatest fraction wins and picks the denominator for the next round.
5. Repeat for 5 rounds. The player who wins the most rounds, wins the game.

	Locate and label your fraction (each player use a different color).	
Round 1		—
Round 2		—
Round 3		—
Round 4		—
Round 5		—



Recording Sheet

	Locate and label your fraction (each player use a different color).	
Round 1		—
Round 2		—
Round 3		—
Round 4		—
Round 5		—

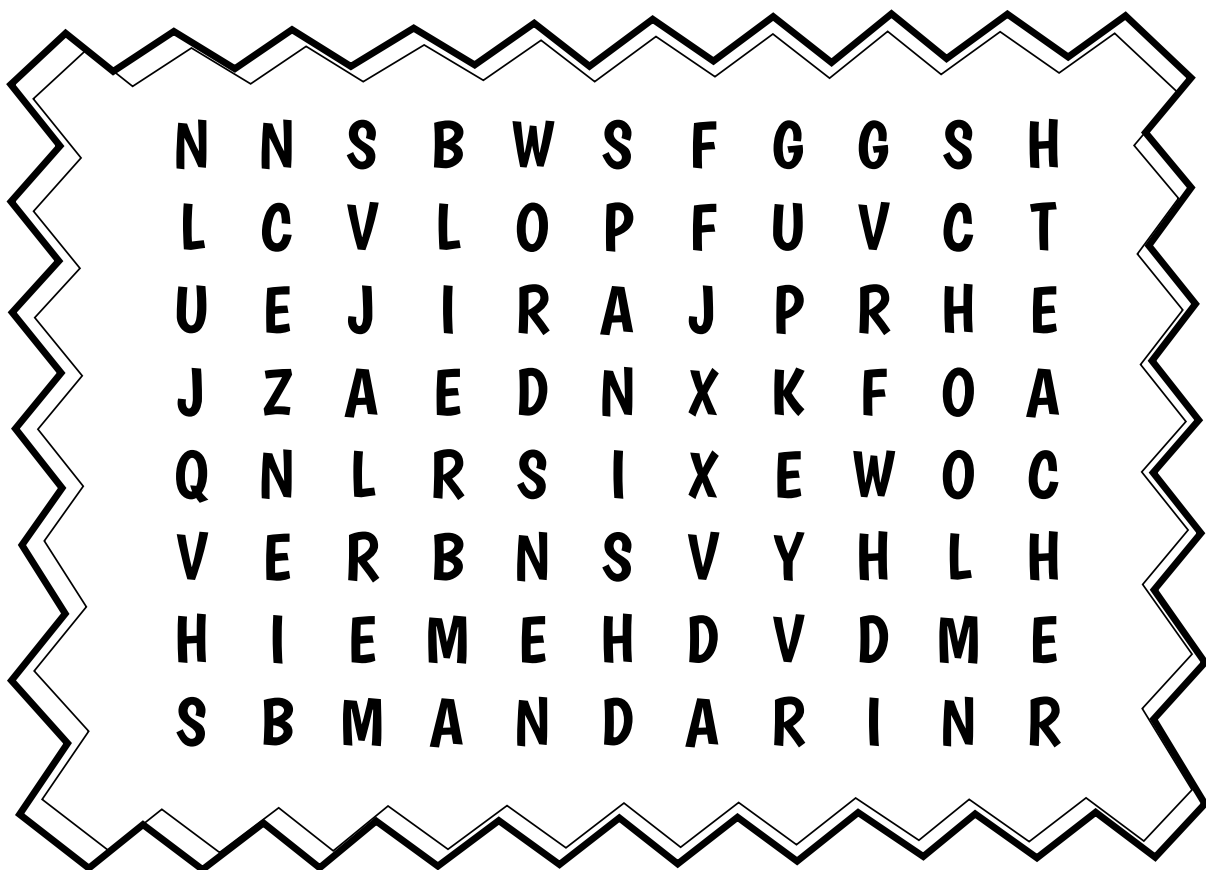


Episode 3, Language & Culture Instructor

Word Find



When Christina and Andrés meet a Mandarin language teacher in California, they learn many new words. Try to find them all while you listen!



KEY

MANDARIN

SCHOOL

LEARN

TEACHER

WORD

SPANISH



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Measuring with a Tool

Directions:

1. Choose an object to measure. Record the object on the chart below.
2. Choose a length measuring tool. You can use paperclips, cubes, etc.
3. Measure the length of the object with your tool and record the length on the chart below.
4. Repeat steps 1-3 five more times.

Object	Length
Example: pencil	6 paperclips

WEEK 8: SHOOT FOR THE STARS



Complete activities and play BINGO!

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Watch Read, Write, ROAR!	Catch fireflies at dusk	Complete Page 99 Activity	Complete Page 91 Activity	Count stars you see
Complete Page 98 Activity	Draw planets in order	Watch Wimee's World	Build a rocket with sticks and string	Complete Page 93 Activity
Complete Page 92 Activity	Watch the sunset tonight	Free Space	Complete Page 102 Activity	Spot the moon tonight
Spot the moon during day	Watch Math Mights	Complete Page 95 Activity	Read at night with a flashlight	Complete Page 100-101 Activity
Complete Page 96-97 Activity	Do 20 jumping jacks (like a star)	Find shapes in clouds	Watch PBS KIDS	Draw your own constellation



ACTIVITY GUIDE

Episode 210: Traveling Through Space

Scan below to watch lesson



High Frequency Words

High frequency words are words that show up a lot when we are reading and writing.

Or When What

Words to Know

We build a **word ladder** by starting with a word and using what we know about letters and sounds to make a new word by changing one or two letters at a time. We start at the bottom and build up, just like when you climb up a ladder.

Label It

Start at the bottom of the ladder. Say the word. Follow the instructions to change each word. Write the new word in the space provided.



Change the **nd** to a **mp**

Add a **t** after the **s**

Change the **h** to a **s**

Add an **n** before the **d**

Read It

Read the poem out loud. Underline the high frequency words.

The Noise by Amy Posey

Clang! Clap! Bump!
What is it?
Stomp! Ding! Thump!
Is it the cat or the dog?
Yes! That is when I saw the cat
jump on the lamp!
What a bang!

Draw a picture to go along with the poem above.

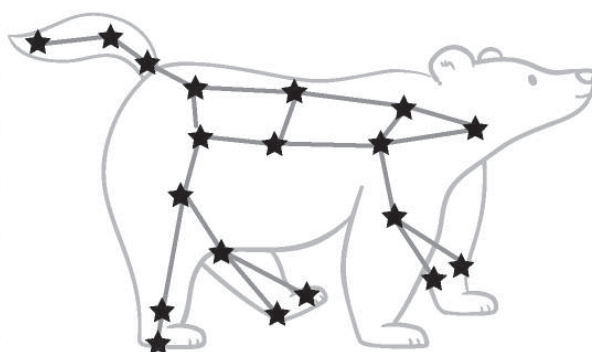


Flashlight Constellations

Constellation Key

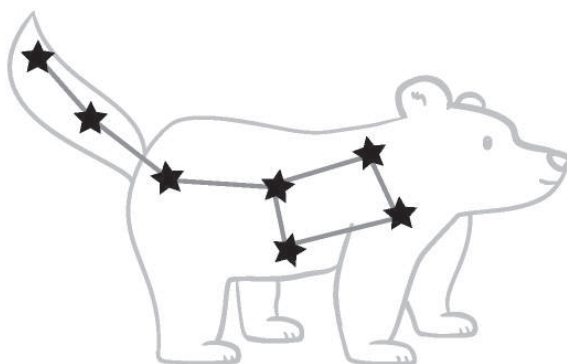
URSA MAJOR

The Great Bear



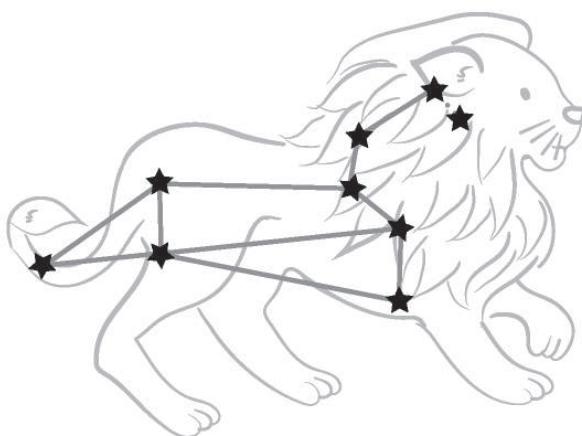
URSA MINOR

The Little Bear



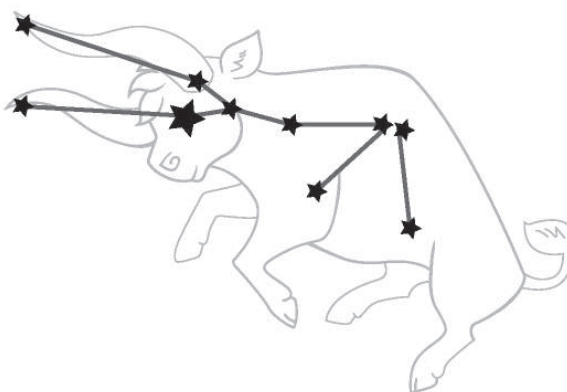
LEO

The Lion



TAURUS

The Bull



WIND DANCER
FILMS

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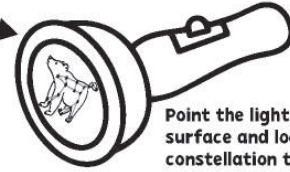
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Flashlight Constellations

A constellation is a series of stars that form a picture in the sky. Astronomers use it today to help pinpoint the locations of other stars. Ask an adult to help cut out the four constellations and punch small holes on each star. These points are the locations of the stars in each constellation.

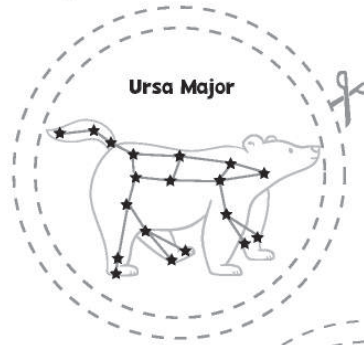
Choose the size circle that fits on your flashlight lens, cutting along the inner or outer dashed circle. Flip the picture so it's facing the flashlight.



Point the light to a dark surface and look at the constellation that shines through. One at a time, identify each constellation and talk about how you identified them.

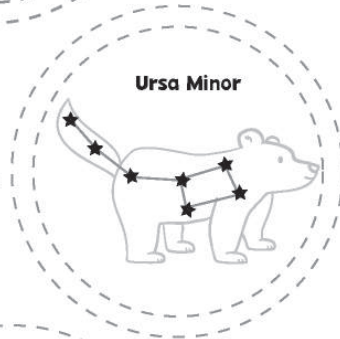
URSA MAJOR

Ursa Major is also known as The Great Bear. Ancient Greeks tell the story about a beautiful girl named Callisto who was turned into a bear by a mean goddess. A tracker tried to catch the bear, but the Greek God Zeus saved Callisto by placing her up in the night sky where she was safe.



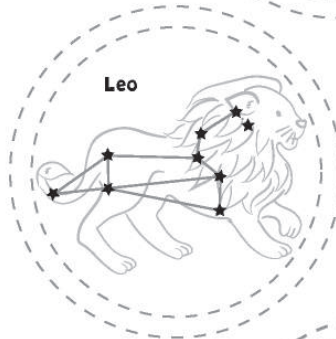
URSA MINOR

The story of Ursa Minor, or The Little Bear, comes from the Ancient Greeks. Arcas was a great hunter. One day while hunting in the woods, he came across a great bear. Little did he know that was actually his mother, Callisto, who was under a spell. Arcas was about to catch the great bear, but the Greek god Zeus, stopped him just in time and turned Arcas into a little bear so he could be with his mom. Zeus placed the two bears into the sky to keep them safe and protected.



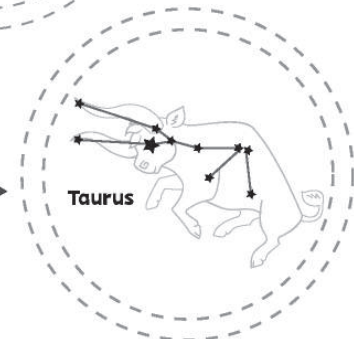
LEO THE LION

In Greek myths, Leo the Lion lived outside an ancient city called Nemea. For many years, Leo would scoop up people from Nemea and no one would stop him. One day, Hercules went to stop the lion and won. Everyone who the lion had caught was set free. Zeus made Leo a constellation in the night sky to remind people of the story of Hercules and Leo.



TAURUS THE BULL

The Ancient Greeks tell the story of a wild bull named Taurus who had a bad temper. One day he trampled a field of wild flowers and Persephone, the Goddess of Spring, got very sad. Taurus apologized and they soon became good friends. From then on, every spring, Persephone would ride on Taurus' back and the two of them would make the flowers bloom as they walked by.



WIND DANCER
FILMS

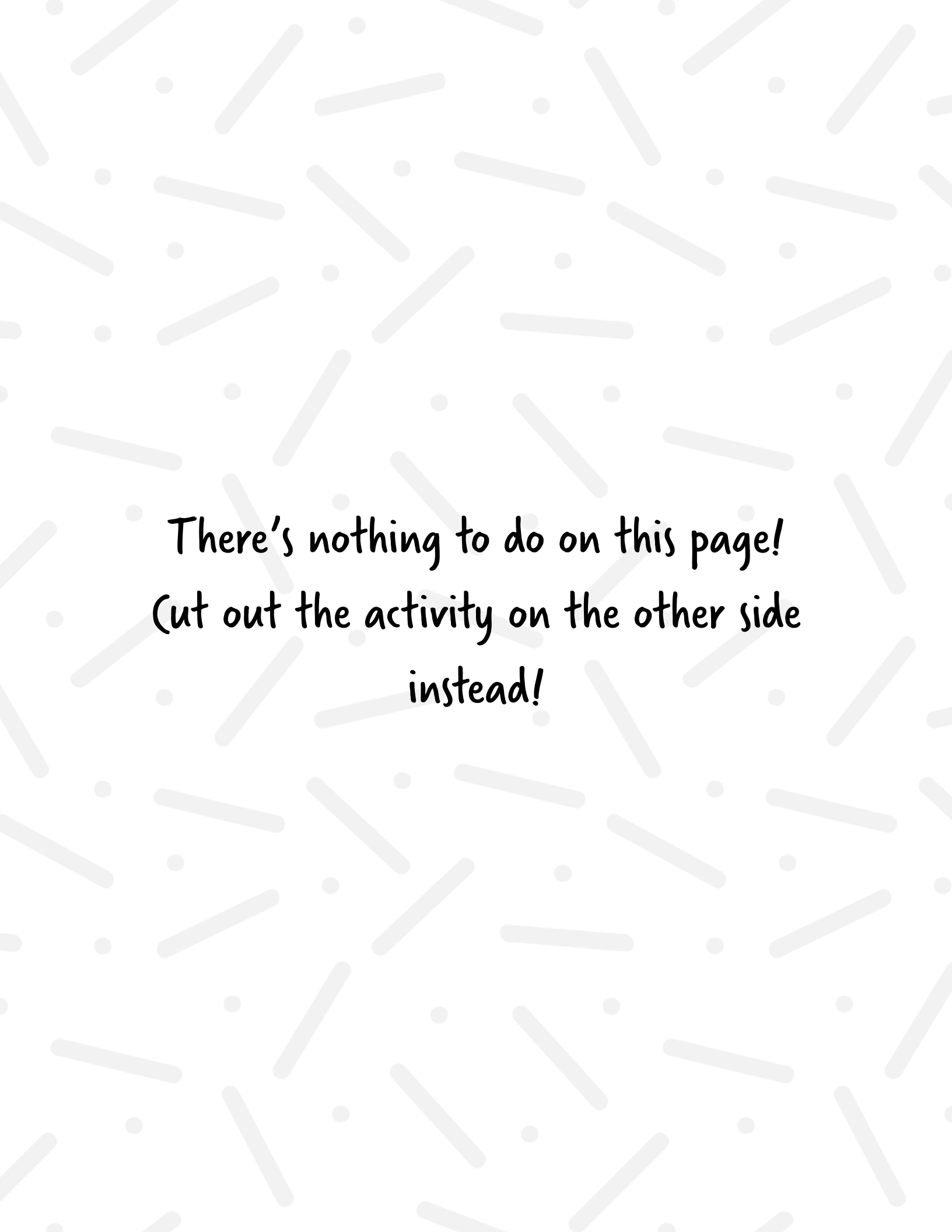
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There's nothing to do on this page!
Cut out the activity on the other side
instead!



ACTIVITY GUIDE

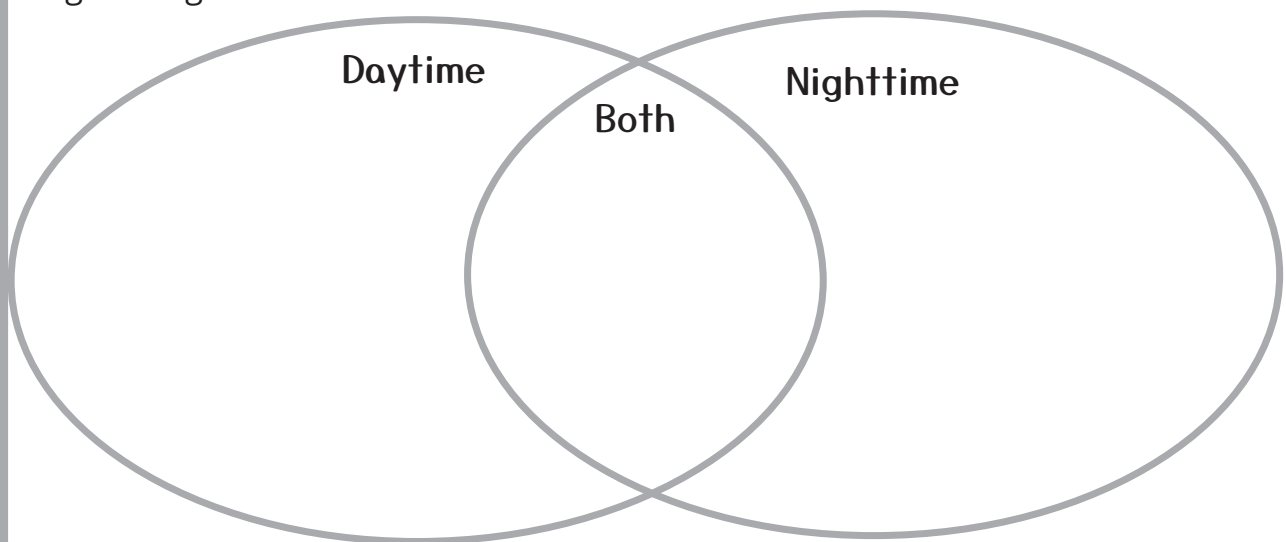
Episode 211: Astronaut Training
Book: *Astronaut Training* by Aneta Cruz

Scan below to
watch lesson



Try It

Write or draw things in the diagram that you see in the Daytime on the left, and things you see in the Nighttime on the right. Things that you see in both day and night can go in the middle.



Draw It

In the story *Astronaut Training* by Aneta Cruz, Astrid dreams of becoming an astronaut.

Draw something that you dream of being when you grow up.

High Frequency Words

do

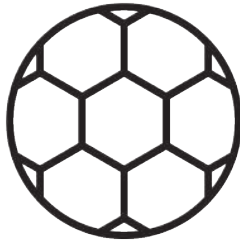
find

Be on the lookout for these words out and about and when reading or listening to a story. When you are writing, try to remember how you learned to spell them.

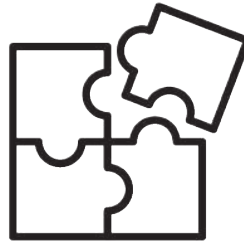


The Toy Store

Look at the prices of the toys, then answer the questions on the following page.



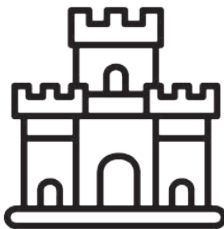
soccer ball
\$1.00



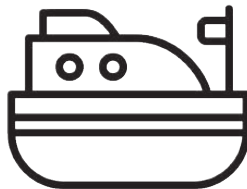
puzzle
15¢



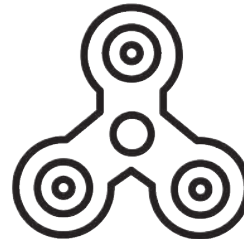
airplane
25¢



castle
99¢

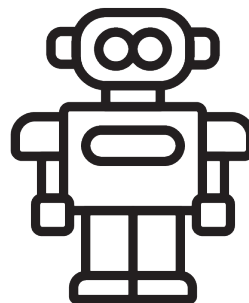


boat
20¢



fidget spinner
30¢

bear
39¢



robot
75¢

I bought three robots and a soccer ball. How much did I spend?

I bought two toys and spent 40¢. What might I have bought?

I bought a castle and a fidget spinner and gave the shopkeeper 6 quarters. How much change did I receive?

You buy a boat and four airplanes. How much do you spend?

Ben buys 2 robots and a puzzle. How much change will he get from a 5 dollar bill?

I buy one bear and two castles. How much do I spend?

Choose any one item from the store. Show what coins you could use to pay the exact cost.

Choose any two items from the store. Show what coins you could use to pay the exact cost.

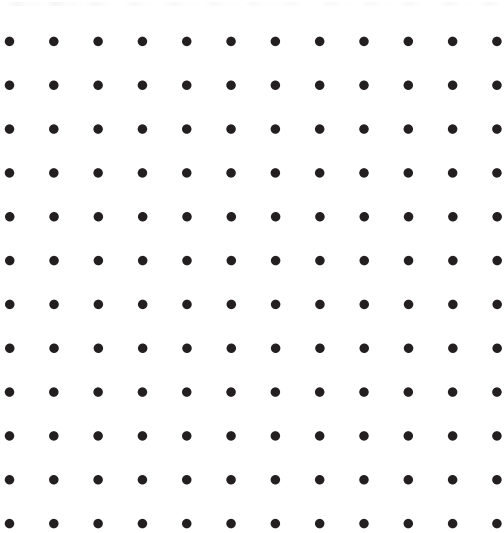
You buy five puzzles. How much change do you get from a one dollar bill?

I spent \$1.19 at The Toy Store. What might I have bought?

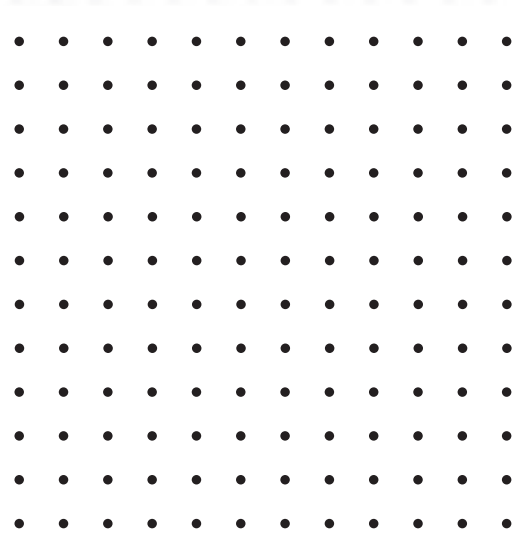


Draw Triangles, Rectangles, and Squares

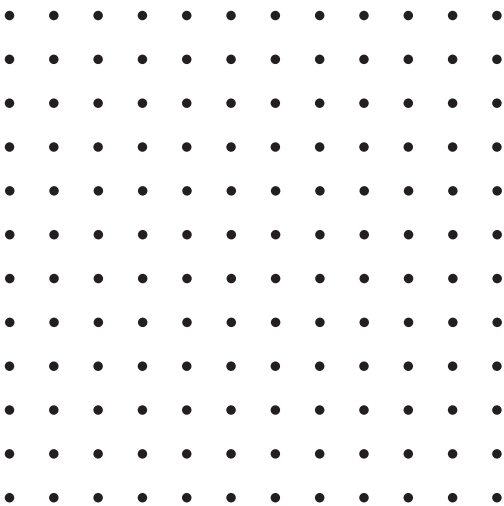
Draw a triangle.



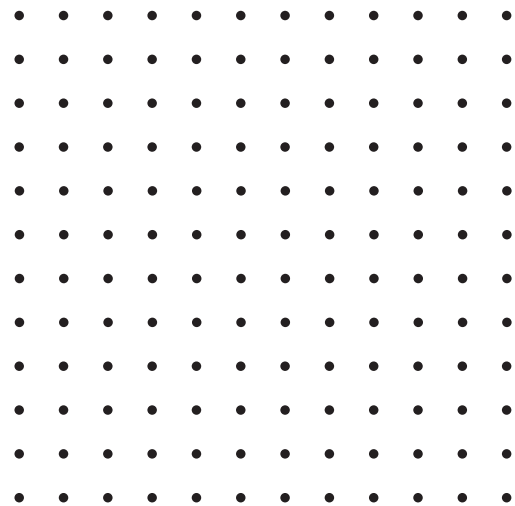
Draw a non-triangle.



Draw a rectangle.



Draw a non-rectangle.





ACTIVITY GUIDE

Episode 213: The Stars and S-Blends

Scan below to watch lesson



Word Ladder

Help us climb the word ladder! Follow the directions and write each word on the rungs of the ladder. Read each word you write.

Step 6: Take away the **p**

Step 6: Change the **i** to a **u**

Step 5: Take away the final **e**

Step 4: Add an **s** before the **p**

Step 3: Change the **m** to a **p**

Step 2: Change the **d** to an **e**

Step 1: Change the **w** to an **m**

Start here

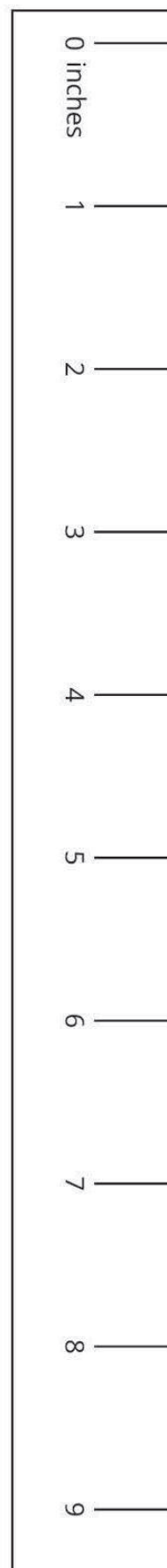
wind



Measure to the Nearest Half or Quarter Inch

Directions:

1. Label one ruler with halves and cut it out.
2. Find 5 objects and use this ruler to measure the objects to the nearest half-inch.
3. Record your measurements on the recording sheet.
4. Label the second ruler with fourths (quarters) and cut it out.
5. Find 5 objects and use this ruler to measure the objects to the nearest quarter-inch.
6. Record your measurements on the recording sheet.



Recording Sheet

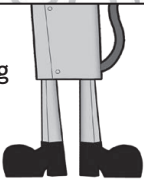
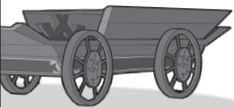
Object	Measurement to the nearest half-inch.

Object	Measurement to the nearest quarter-inch.



SCAVENGER HUNT

In celebration of 20 years of *Cyberchase*, go on a scavenger hunt to find these 20 different things. To keep track of all the items you find, cross out each box as you go.

FIND			
1. Something green 	2. Something round 	3. Something that makes noise 	4. Something you love 
5. Something you can use to measure 	6. Something with a number on it 	7. Something that keeps you warm 	8. Something that goes on your head 
9. Something that's taller than you 	10. Something SOFT 	11. Something that comes in a pair 	12. Something with wheels 
13. Something that starts with "D" 	14. Something you can use to play sports 	15. Something that lights up 	16. Something that can open and close 
17. Something with buttons 	18. Something that can bounce 	19. Something shaped like a triangle 	20. The number 20! 
 Watch CYBERCHASE on PBS KIDS Check local listings or visit pbskids.org/cyberchase			

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KEEP LEARNING. KEEP PLAYING. ALL SUMMER LONG.

We've got even more videos, activity sheets, and hands-on science experiments through the Michigan Learning Channel to keep the fun going all summer long!



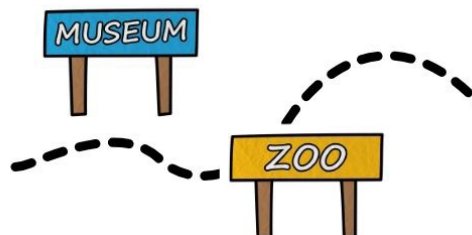
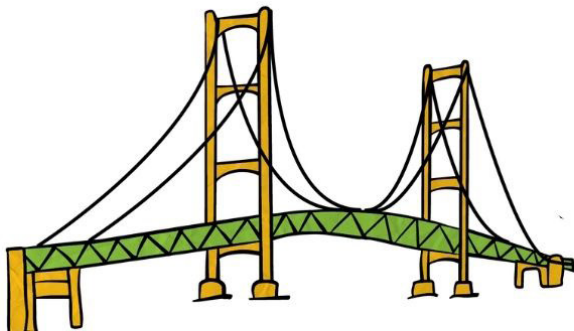
Curious Crew



The Planning Period



Extra Credit



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