



Michigan
LEARNING
 CHANNEL
 A PUBLIC MEDIA PARTNERSHIP

SUMMER!

FUN ACTIVITY BOOK



**LOWER
 ELEMENTARY**

On TV. Online. Statewide. VISIT MichiganLearning.org

SPECIAL THANKS TO OUR MICHIGAN LEARNING CHANNEL CONTENT PARTNERS:

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Michigan Architectural Foundation University of Michigan
PBS Wimee's Words

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The Donald and Mary Kosch Foundation

WATCH on the Michigan Learning Channel
or stream the channel at MichiganLearning.org



Visit MichiganLearning.org and follow
[@MichLearning](https://twitter.com/MichLearning) on social media to find out more.

How to Use This Book

We've curated activities that inspire learning all summer long. Fight the summer slide with math and writing refreshers, then explore your world with scavenger hunts and science experiments the whole family can try. Use the guides below to make the most of this summer!



Use Grade Levels

This book spans multiple grade levels. Choose a few lessons each week and try new ones as needed. Try tougher lessons later in the summer or next year.



Follow Weekly Themes

This book is designed to use for 8 weeks of summer. We suggest spreading it out over a few days each week and finding a time that works for your family.



Extend the Learning

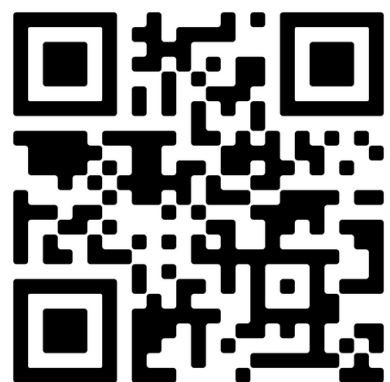
Scan the QR codes in this book to watch videos with extra instructions and examples. Find all of our summer videos at MichiganLearning.org/summer

And Don't Forget!

Share Your Thoughts

Scan this QR code to take a short survey about our Summer of Fun program to let us know what you like about our books and what you'd like to see in the future.

Or VISIT
MichiganLearning.org/SummerSurvey



Teamwork makes the dream work.

It takes teamwork to help your student make progress in school—especially when it involves special education. **Michigan Alliance for Families and Special Education Mediation Services** are here to help.

ALL SERVICES ARE FREE.

For help strengthening communication, call **Special Education Mediation Services** at **833-KIDS-1ST** or visit **mikids1st.org**.

For free resources and support, call **800-552-4821** or visit **michiganallianceforfamilies.org**.



Michigan Alliance for Families and Special Education Mediation Services are Individuals with Disabilities Education Act (IDEA) Grant Funded Initiatives through the Michigan Department of Education, Office of Special Education.



Dates and Themes

The summer program runs from **June 19 to August 13, 2023**

Each week has a set of lessons, additional programs, activities, and field trips based on the weekly theme.

Animals (June 19-25)

Explore the animal kingdom for ferocious fun!

Across America (June 26 - July 2)

From coast to coast, explore what it means to be American

Sports and Games (July 3-9)

Get serious about fun pastimes, from soccer to Sudoku.

Engineering (July 10-16)

Tinker, design, build, rebuild, and find engineering everywhere.

Our Stories (July 17-23)

From legends to our everyday lives, stories shape who we are.

Great Lakes (July 24-30)

Dive in and explore the lakes that make Michigan special.

Around the World (July 31 - August 6)

Experience food, art, music, and cultures from around the globe.




Space (August 7-13)

Meet astronauts and virtually visit the planets and stars.



On TV. Online.
Statewide.

Learn more about the Michigan Learning Channel at
Facebook Live at fb.me/michlearning
www.michiganlearning.org/summer

   Follow @MichLearning on social media to find out more.

Local Events



The Michigan Learning Channel has Engagement Coordinators across the state that serve as your local connection to everything happening at our channel and at your local PBS station.

Scan the QR code or visit [MichiganLearning.org/Coordinators](https://michiganlearning.org/coordinators) to learn more about our Engagement Coordinators and see their local event schedules by region, or contact them directly using their information below.

Michigan Learning Channel Engagement Coordinators by Region

■ **WNMU**
WNMU-TV
Channel 13.4
Emily Roussin
eroussin@nmu.edu

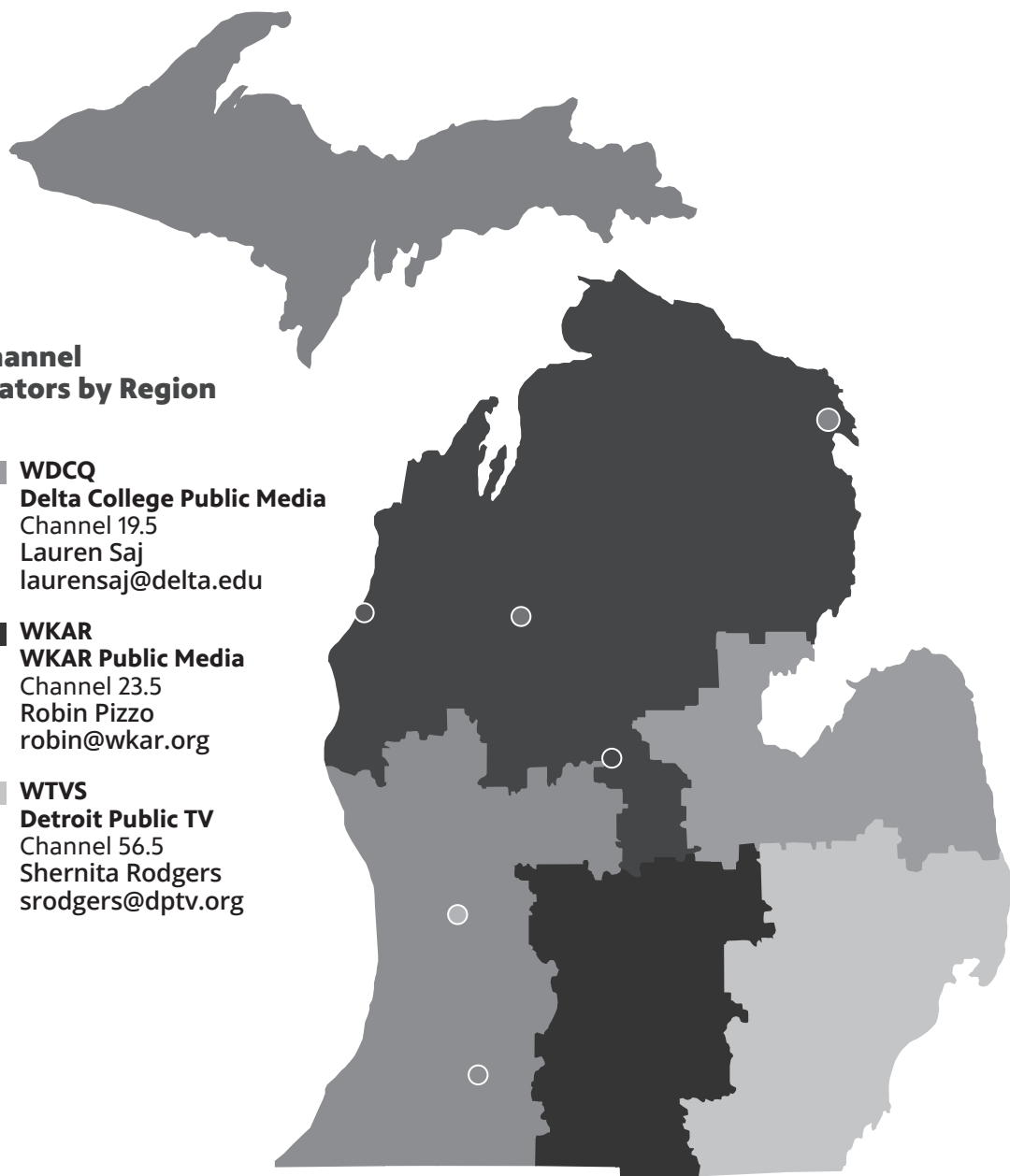
■ **WCMU**
Alpena
Channel 6.4
Renee Mahon
mahon2rm@cmich.edu

■ **WGVU**
Grand Rapids
Channel 35.6
Rachel Cain
cainra@gvsu.edu

■ **WDCQ**
Delta College Public Media
Channel 19.5
Lauren Saj
laurensaj@delta.edu

■ **WKAR**
WKAR Public Media
Channel 23.5
Robin Pizzo
robin@wkar.org

■ **WTVS**
Detroit Public TV
Channel 56.5
Shernita Rodgers
srodgers@dptv.org



On TV. Online.
Statewide.

Learn more about the Michigan Learning Channel at
Facebook Live at fb.me/michlearning
www.michiganlearning.org/summer

   Follow @MichLearning on social media to find out more.



Where to Find the Michigan Learning Channel

Find your favorite shows anywhere you go!

From the QR Codes:

Scan any of the QR codes in this book to see the accompanying video right on your device.

On Demand:

Video lessons and activities at MichiganLearning.org

Click your grade level for this week's selected lessons

Or, use "Find a Lesson" to search by grade, subject, and educational standard

On the App:

Find shows on the free PBS app

The PBS App is available for mobile devices, Roku, Apple TV, and on many Smart TVs.

Search for Read Write Roar, Math Moments, Extra Credit, DIY Science Time, Wimee's Words, InPACT at Home, Simple Gift Series, and more great programs.

On the Livestream:

Watch the 24/7 livestream at MichiganLearning.org/live-tv

On TV:

Find us on broadcast television with an antenna



On TV. Online.
Statewide.

Learn more about the Michigan Learning Channel at
Facebook Live at fb.me/michlearning
www.michiganlearning.org/summer

   Follow @MichLearning on social media to find out more.



Learn Anywhere!

On Air. Online. On Demand.

Serving students statewide through your local PBS station, the Michigan Learning Channel has everything kids need to build their brains and engage in learning key concepts to succeed in school!



Preschool

Read, sing, and play with your little one.

Wimee's Words

Join Wimee, the fun, lovable robot that inspires kids to learn through creativity.

Simple Gift Series

Make music, find something new, and read with Betty the Bookworm.

POP Check

Mindful practice tools to Pause, Own what we are feeling, and Practice relaxing.

Kindergarten to 3rd Grade

Keep kids learning with fun lessons taught by Michigan teachers.

Read, Write, Roar

Kids build literacy skills with engaging ELA lessons.

Math Might

Build number sense and learn strategies for solving math problems.

InPACT

Get moving with this home-based physical activity program.

4th to 6th Grade

Short, engaging videos and hands-on lessons keep tweens engaged.

Extra Credit

Creative writing, math, fitness, career exploration, and more!

Curious Crew

Dr. Rob Stephensen and inquisitive kids take a hands-on approach to scientific exploration.

Story Pirates

Bite-sized literary lessons with comedians, authors, and teachers.



VISIT us online to view all shows, learn about events,
and download activities!

www.michiganlearning.org

Follow @michlearning to find out more.



WEEKDAY SUMMER SCHEDULE

TIME	GRADE	WHAT'S ON
6AM	Pre-K	Wimee's Words, Simple Gifts Series, Signing Time, PBS Kids Shows
7AM		Let's Learn
8AM	Kindergarten	Read, Write, ROAR!, Math Might's and more
9AM	1st Grade	
10AM	2nd Grade	
11AM	3rd Grade	
12:30PM - 1:30PM	4th - 5th Grade	Lunch Time Block: Live From the Opera House, Camp TV, Story Pirates TV, Math & Movement
1:30PM - 3PM	Pre-K	Wimee's Words, Simple Gifts Series, Signing Time, PBS Kids Shows
3PM - 6PM	4th - 8th Grade	Afternoon Block: Make48, Make it Artsy, Extra Credit, Into the Outdoors DIY Science Time, Curious Crew, Story Pirates TV, SciGirls
6PM - 7PM	Kindergarten - 3rd Grade	Read, Write, ROAR!, Math Might's and more
7PM - 8PM		Local Shows and Quiet Time Block: Live From the Opera House, Camp TV, AADL Storytime
8PM - 9PM	7th - 12th Grade	Road Trip Nation, Great Lakes Now, Destination Michigan, Startup, Native Report, National and Local PBS Specials
9PM - 6AM		PBS programs related to educational standards

Details at MichiganLearning.org/schedule

rev 03/23

WATCH on the Michigan Learning Channel.
Episodes are available on-demand or stream the channel at MichiganLearning.org/summer

Visit MichiganLearning.org and follow @MichLearning on social media to find out more.





Learn at Home with PBS KIDS

Explore reading, math, science, life lessons, and more on the PBS KIDS 24/7 channel and live stream! The TV schedule below offers you and your child a chance to learn anytime alongside your friends from PBS KIDS.

TIME (M-F)	SHOW
6/5c am	Clifford the Big Red Dog
6:30/5:30c am	Elinor Wonders Why
7/6c am	Dinosaur Train
7:30/6:30c am	Pinkalicious & Peterrific
8/7c am	Pinkalicious & Peterrific
8:30/7:30c am	Sesame Street
9/8c am	Sesame Street
9:30/8:30c am	Work It Out Wombats!
10/9c am	Rosie's Rules
10:30/9:30c am	Daniel Tiger's Neighborhood
11/10c am	Daniel Tiger's Neighborhood
11:30/10:30c am	Curious George
12 pm/11c am	Curious George
12:30 pm/11:30c am	Donkey Hodie
1/12c pm	Donkey Hodie
1:30/12:30c pm	Work It Out Wombats!
2/1c pm	Rosie's Rules
2:30/1:30c pm	Alma's Way
3/2c pm	Alma's Way
3:30/2:30c pm	Nature Cat
4/3c pm	Nature Cat
4:30/3:30c pm	Arthur
5/4c pm	Arthur
5:30/4:30c pm	Odd Squad
6/5c pm	Wild Kratts
6:30/5:30c pm	Wild Kratts

Access FREE, at-home learning activities, tips, and more on pbskidsforparents.org

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rev 4/23



App Learning Goals

MULTIPLE LEARNING GOALS GRADES PK-2



Free learning games with your favorite PBS KIDS characters anytime, anywhere!



Thousands of free videos from PBS KIDS, the #1 educational media brand for kids.

App	Grade	Learning Goals
Daniel Tiger for Parents (for parents & caregivers)	PK-K	Emotions, Self-Awareness & Relationships
Jet's Bot Builder	K-2	Science & Engineering
Molly of Denali	K-2	Literacy
Nature Cat's Great Outdoors	K-2	Science
PBS KIDS ScratchJr	1-2	Critical Thinking & Coding
PBS Parents Play & Learn	PK-K	Literacy & Math
Photo Stuff with Ruff	K-2	Science
Play and Learn Engineering (for parents & caregivers)	PK-K	Science & Engineering
Play and Learn Science (for parents & caregivers)	PK-K	Science
Ready Jet Go! Space Explorer	K-2	Science
Ready Jet Go! Space Scouts	K-2	Science & Engineering
The Cat in the Hat Builds That!	PK-K	Science & Engineering
The Cat in the Hat Invents	PK-K	Science & Engineering



FREE APPS
at pbskids.org/apps



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Week 1: Animals

June 19-25

Explore the animal kingdom for ferocious fun! Our featured careers this week are biologist, zookeeper, and veterinarian. Scan the QR code or visit MichiganLearning.org/Summer/Animals to explore all of our videos this week.

Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO! Some of them are in this book, and some ask you to use your imagination or go outside.



Talk to someone who works with animals	 60 mins. of activity	 Read for 20 minutes	Make a Wild Kratts Wildlife Journal	Watch Read, Write, ROAR!
 Read for 20 minutes	 Watch Math Might	 Look for birds	Name 3 animals you can find at a zoo	 60 mins. of activity
 60 mins. of activity	Go on a nature treasure hunt	 HAVE FUN! (Free Space)	Go for a walk or hike	 Read for 20 minutes
Watch Read, Write, ROAR!	 Spot a squirrel	 Watch Math Might	Watch InPACT at Home	Draw a bird with Cat in the Hat
Watch InPACT at Home	 Read for 20 minutes	Name 3 kinds of dinosaurs	 60 mins. of activity	Write a story about an animal



Wild Kratts Wildlife Journal

Keeping a wildlife journal is a great way to build both observation and writing skills. You don't have to go far – you'd be surprised what is going on just outside your front door!



Directions

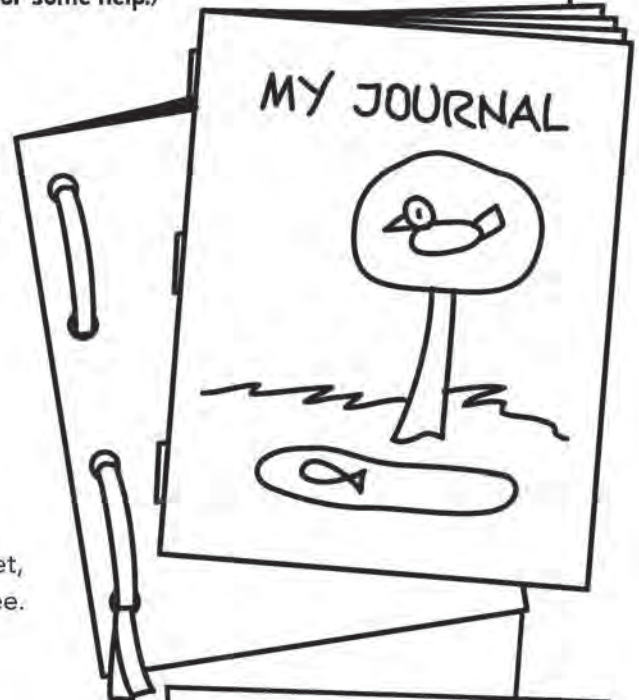
Creating the Journal:

(You may want to ask an adult for some help.)

1. Fold several sheets of paper in half so that you create a booklet.
2. Look outside your window, walk in your yard, or along your street and take notice of what you see.
3. Customize the journal by creating an illustration on the cover.

Using the Journal:

1. Write the day's date.
2. Go outside and walk in your yard, along your street, or in a nearby park and take notice of what you see.
 - Did you see any animals? Birds? Insects?
 - Where are they living?
 - What are they doing?
 - How many did you see?
 - Could you hear them?
 - What time of day is it?
3. Write down notes or sketch a picture in your journal, so that you have a record of the thing you observed.
4. After a few entries, take a look back at the things you saw. How were things different each time? What was the same?



Materials

- Several sheets of unlined paper
- Hole punch or stapler for binding
- Ribbon or string to bind
- Markers, pencils or crayons

Find more games and activities at pbskidsforparents.org

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Funded by:





Wild Kratts Wildlife Journal

What I Observed

Nature Notes

Date _____

Location _____



Find more games and activities at pbskidsforparents.org

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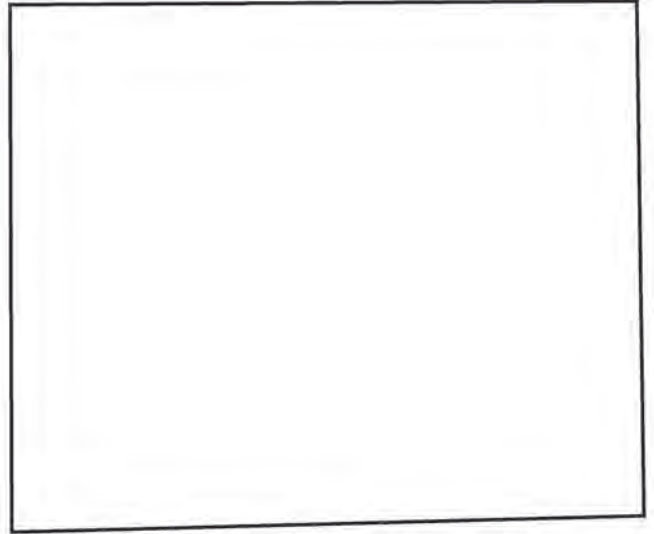
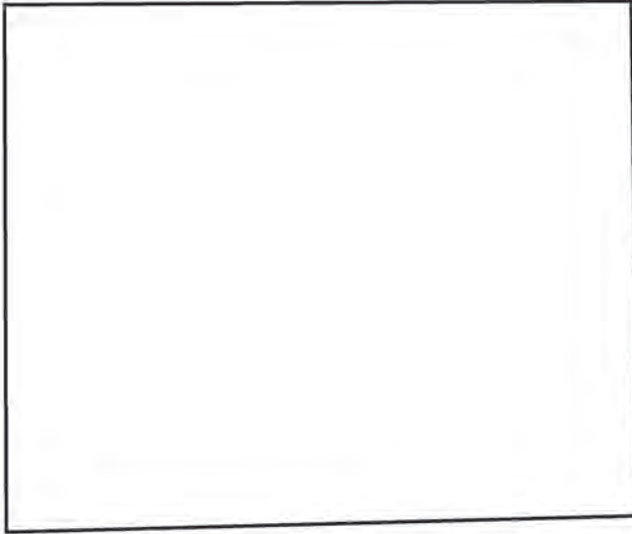




Nature Treasure Hunt

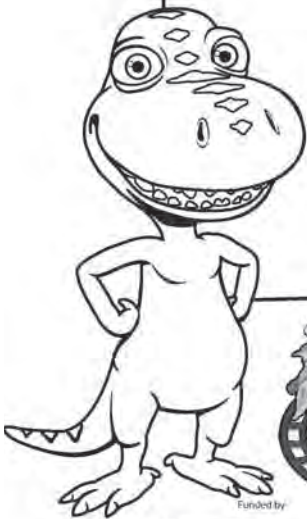
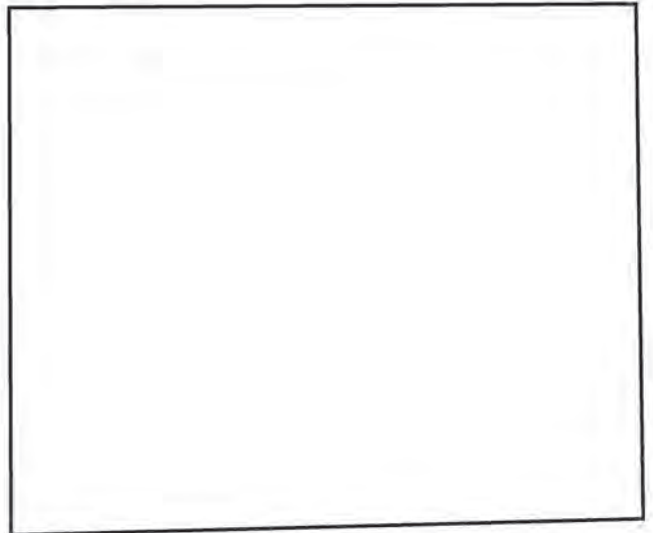
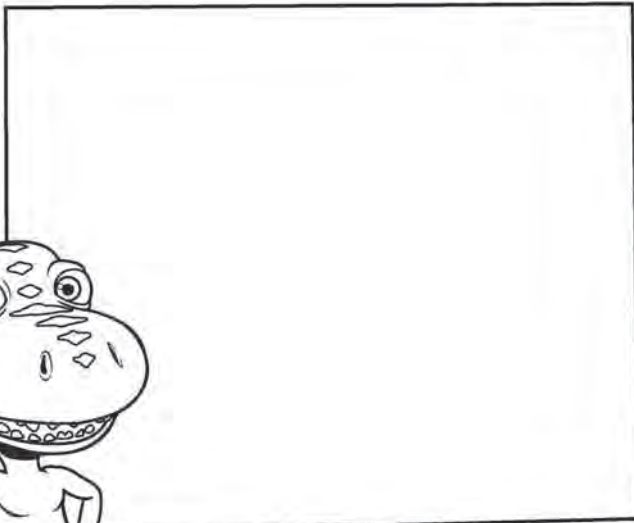
Find 2 different kinds of plants. Draw a picture of each one below. Pay attention to the shapes of leaves and colors of any flowers. How are they alike? How are they different?

Plants I Found



Find 2 different kinds of animals. Draw a picture of each one below. Show as many details as you can. How are they alike? How are they different?

Animals I Found



Tell someone else about something NEW you learned about a plant or an animal you observed.

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



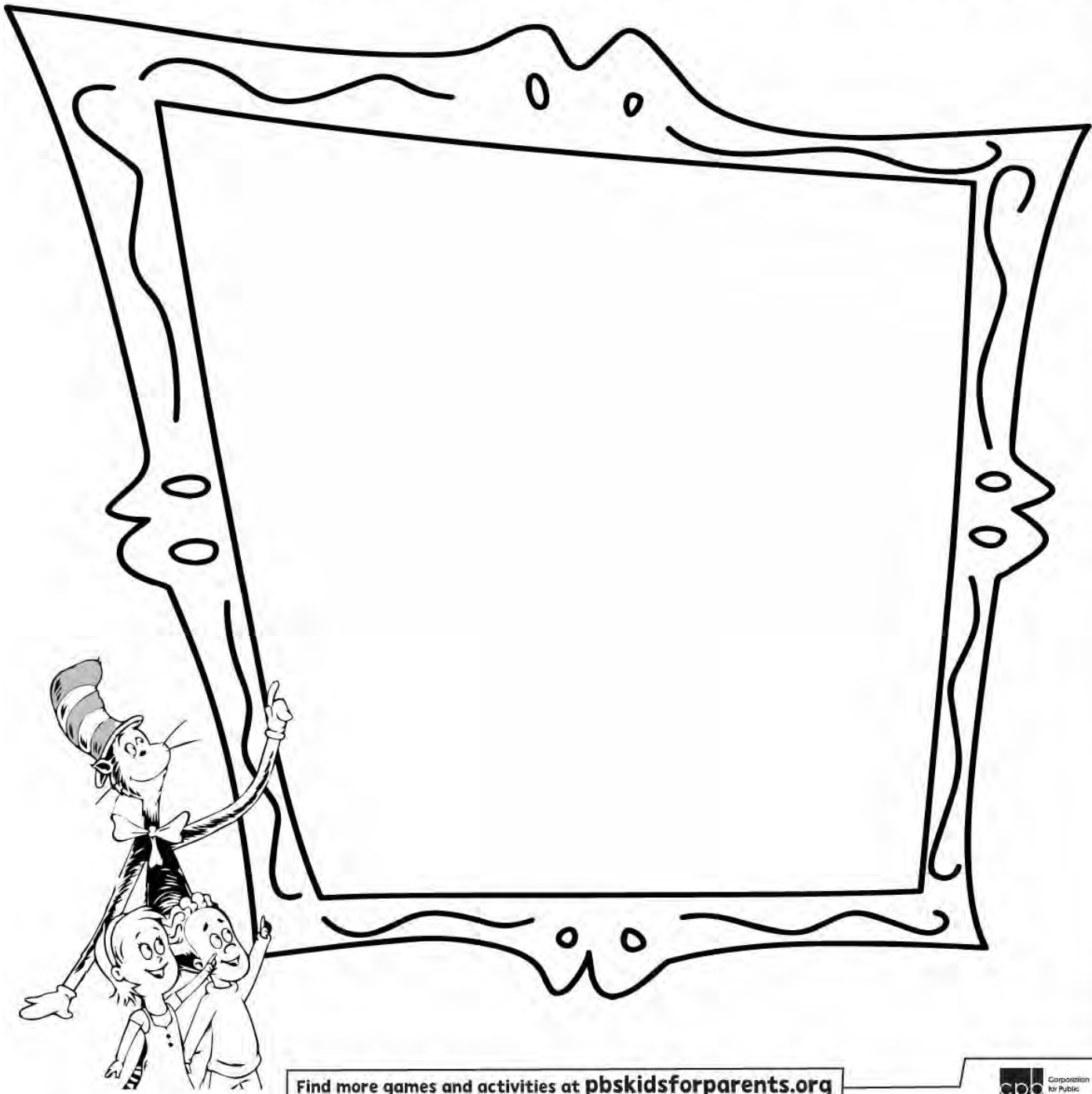
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Name _____

My Bird Observations

**Look out a window and draw a bird that you see.
Tell someone else about the bird. Share what you notice – for example,
the colors of the feathers or the shape of its beak. What was it doing?**



Find more games and activities at pbskidsforparents.org



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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?



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.



ACTIVITY GUIDE

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



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

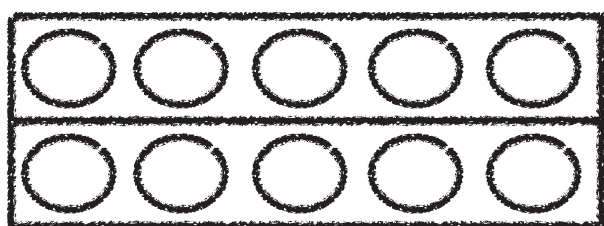
Break each word into syllables and write the word parts in the blanks provided.

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

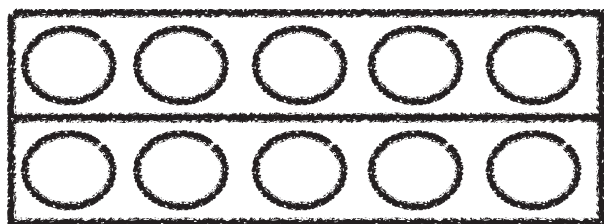
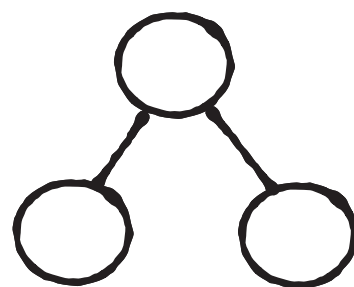


10 Frame Shake!

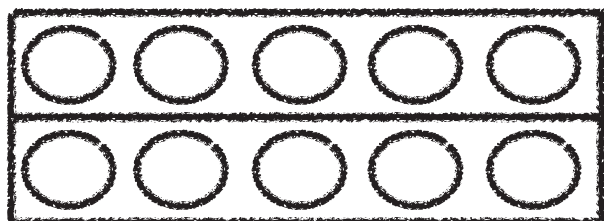
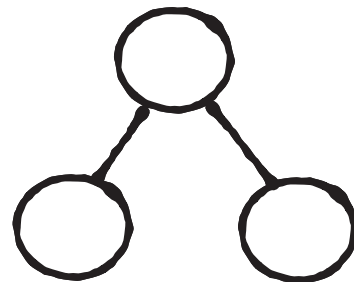
Shake a cup with 10 two-sided counters and dump it out. Count how many of each color you have and record it in the number sentence and number bond. Keep going until you have all 9 combinations for 10.



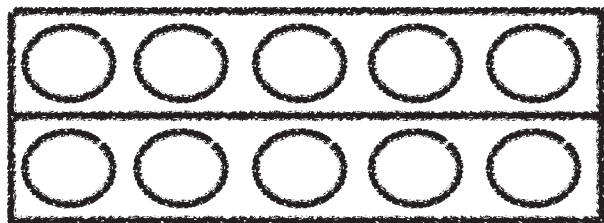
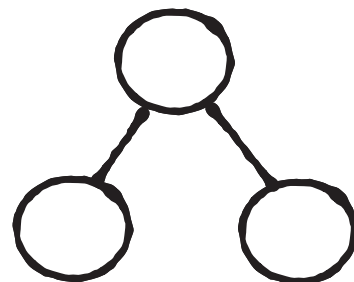
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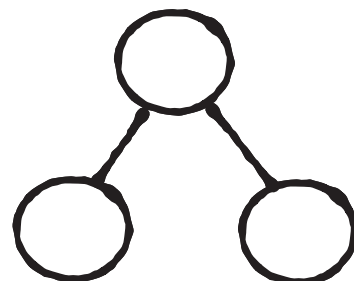
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$$\begin{array}{r} \underline{\hspace{2cm}} \\ + \underline{\hspace{2cm}} = 10 \end{array}$$



$$\begin{array}{r} \underline{\hspace{2cm}} \\ + \underline{\hspace{2cm}} = 10 \end{array}$$





5 Way Challenge

Write the number 5 ways.

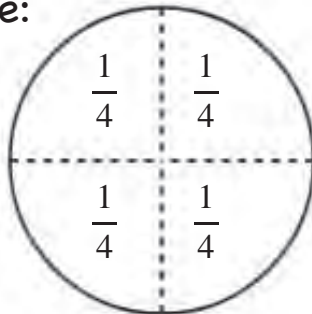
<p>356</p>	<p>Only Tens and Ones</p>
<p>A Base Ten Diagram</p>	<p>Word Form</p>
<p>Compose a Different Way</p>	<p>Expanded Form</p>



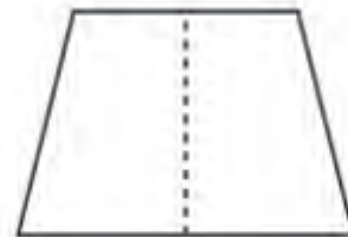
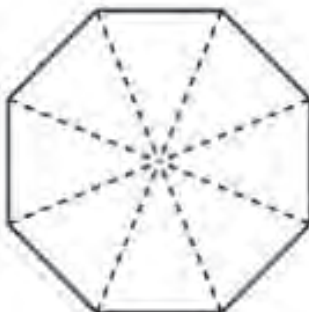
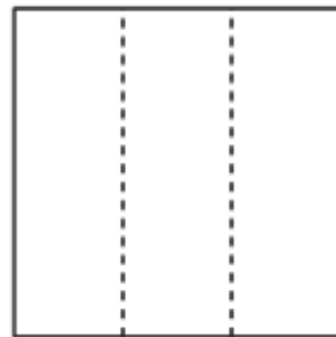
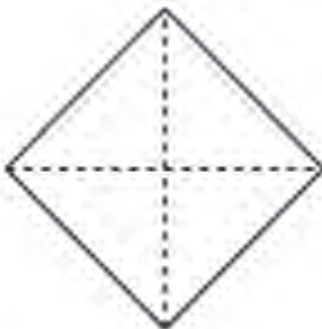
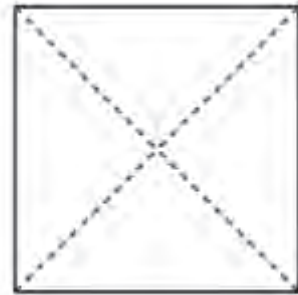
Reading and Writing Fractions

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

Example:



Practice reading: one fourth












Week 2: Across America

June 26 – July 2

From coast to coast, explore what it means to be American. Our featured careers this week are reporter, architect, and paramedic. Scan the QR code or visit MichiganLearning.org/Summer/America to explore all of our videos this week.

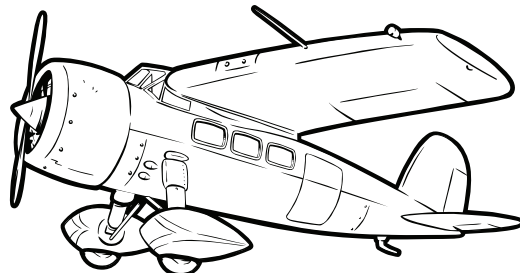
Use the sheet below to mark off this week’s activities as you complete them. See if you can get a BINGO! Some of them are in this book, and some ask you to use your imagination or go outside.



Name 3 states that start with the letter M	 60 mins. of activity	 Read for 20 minutes	 Do a good deed	Watch Read, Write, ROAR!
 Read for 20 minutes	 Watch Math Might	Learn about a family member’s job	Try Amelia Earhart’s word find	 60 mins. of activity
 60 mins. of activity	Write or draw in “My Summer Adventure”	 HAVE FUN! (Free Space)	 Go swimming	 Read for 20 minutes
Watch Read, Write, ROAR!	 Do a good deed	 Watch Math Might	Watch InPACT at Home	Find the states that border Michigan
Watch InPACT at Home	 Read for 20 minutes	Go for a walk or hike	 60 mins. of activity	Spot a fire truck



Amelia Earhart's Travelling Word Find



Help Amelia find all the words related to her travels!

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

PLANE

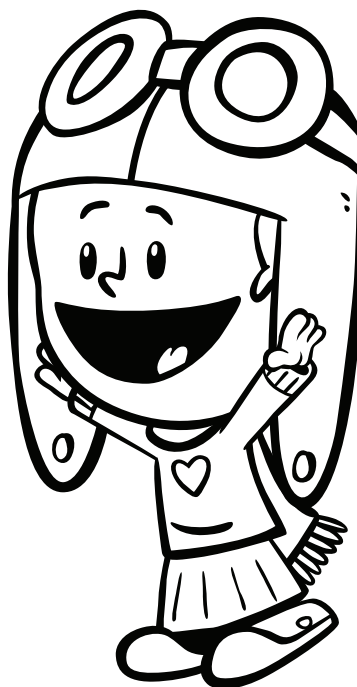
FLYING

PILOT

SKY

PACK

FUN



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Based on Brad Meltzer and Christopher Eliopoulos' best-selling kids book series



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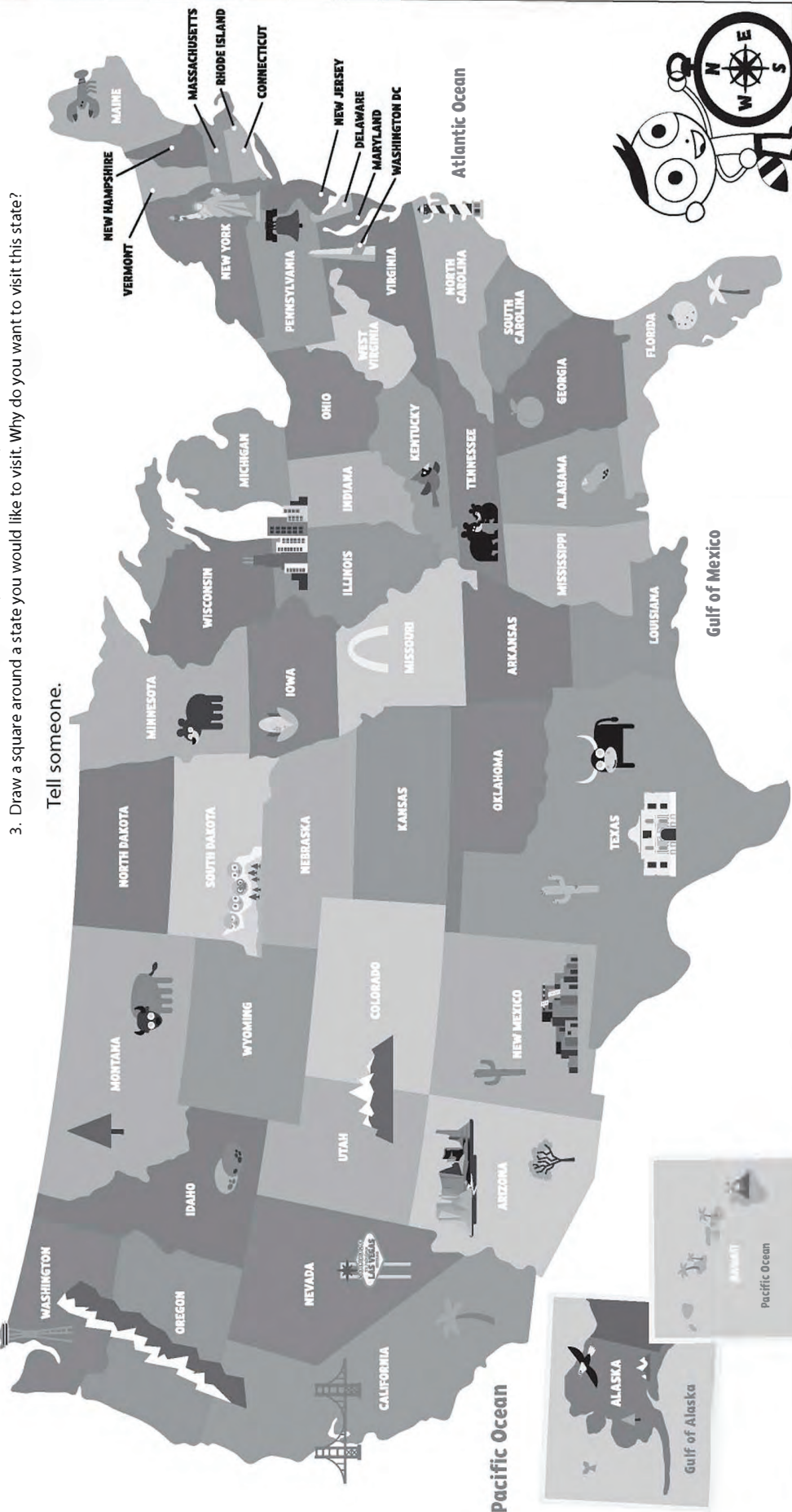
United States Map

Maps help us learn about the world around us.

1. Find the title of the map and the compass.
2. Draw a circle around the state you live in. How many states border it? Name them.
3. Draw a square around a state you would like to visit. Why do you want to visit this state?

Tell someone.

Name _____



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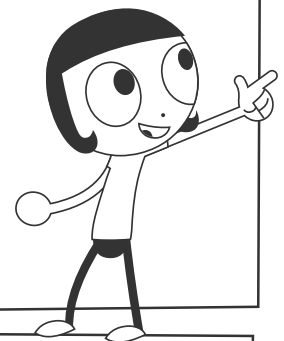
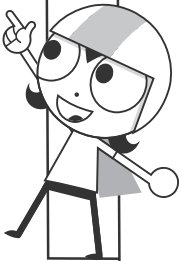
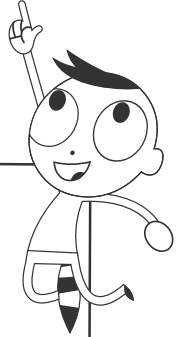


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My Summer Adventure

Dot, Dee and Dell love to explore and learn together. Write down or draw the places or things you'd like to explore this summer.



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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 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.



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

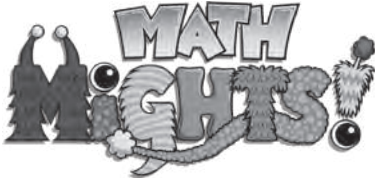
-en
to cause to be or have

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



Add & Subtract with Teen Numbers with Value Pak

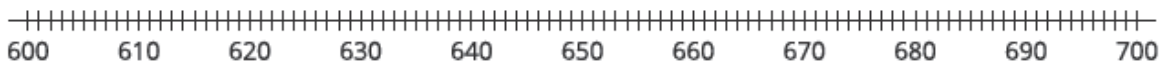
Equation	Solve by drawing base ten blocks or model in a double ten frame
$13 = 10 + \square$	
$10 + 6 = \square$	
$17 = \square + 7$	
$10 + \square = 15$	
$2 = 10 - \square$	
$14 - 10 = \square$	
$\square = 18 - 10$	



Plot and Compare

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

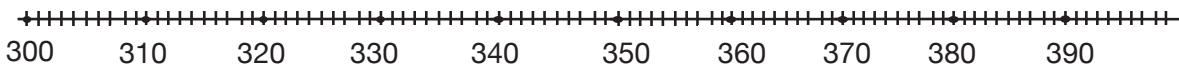
1.



Plot: **681, 618**

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

2.



Plot: **315, 366**

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

3.



Plot: **560, 460**

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



Fraction Match Up

Directions: Using scrap paper, cut squares to cover the cards below. 2 players take turns revealing 2 cards to try and make a match. If you make a match, keep the cards revealed and keep the paper covers to keep score. If you don't make a match, cover the cards back up. Once all the cards are revealed, whoever has the most matching pairs wins!

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












Week 3: Sports and Games

July 3-9

Get serious about fun pastimes from soccer to Sudoku. Our featured careers this week are dancer, athletic trainer, and musician. Scan the QR code or visit MichiganLearning.org/Summer/Sports to explore all of our videos this week.

Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO! Some of them are in this book, and some ask you to use your imagination or go outside.



Practice ballet positions	 60 mins. of activity	 Read for 20 minutes	Try something from the InPACT activity deck	Watch Read, Write, ROAR!
 Read for 20 minutes	 Watch Math Might	Move like a dinosaur	Design a new board game	 60 mins. of activity
 60 mins. of activity	Name 2 famous athletes	 HAVE FUN! (Free Space)	Make up a new sport or game	 Read for 20 minutes
Watch Read, Write, ROAR!	Talk to someone who works outside	 Watch Math Might	Watch InPACT at Home	Try something from the InPACT activity deck
Watch InPACT at Home	 Read for 20 minutes	Make an obstacle course	 60 mins. of activity	Try a new food

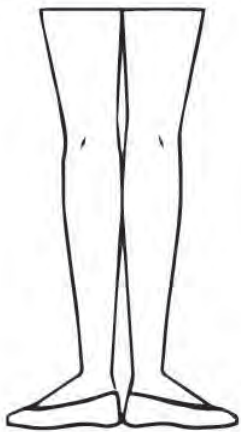


peg + cat

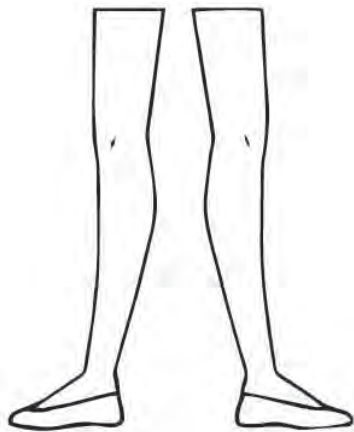
In 2015, Misty Copeland became the first Black principal ballerina with the American Ballet Theater. Learn the five basic foot positions used in ballet. Create a dance using the positions and add leaping and twirling to your moves just like Misty!



The Five Ballet Positions



1



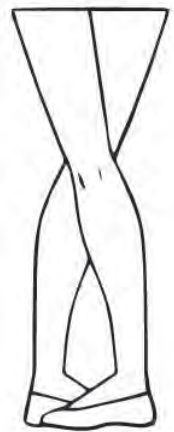
2



3



4



5



Find more games and activities at pbskidsforparents.org

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IMPACT at HOME

Activity Cards

Cut out the cards. When you're feeling antsy, try following the directions for one of the exercises!

Blast-Off Lunges

INSTRUCTIONS

1. Get into a lunge position with left leg forward, hips underneath you, and right leg behind your right hip.
2. Slowly sink into a lunge, trying to get your knee to touch the ground.
3. Immediately "blast off" by hopping upwards and into next lunge position with right leg forward and left leg behind.
4. If needed, instead of jumping into the next lunge position, jump with feet together and then bounce into lunge position.
5. Repeat as many rounds as possible.

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Side Leg Lifts

INSTRUCTIONS

1. Start by laying on your side with your legs stacked on top of each other.
2. Slowly raise your top leg up towards the sky and then back down.
3. Complete 10 repetitions and then switch legs.
4. Complete 3 sets per leg.
5. For added challenge, tape a bag of water to the top leg for some added weight!

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Tap Backs

INSTRUCTIONS

1. Stand up tall and proud with your feet together and hands on your hips.
2. Take your right foot and tap it right behind you, then place back to starting position.
3. Take your left foot and tap it right behind you, then place back to starting position.
4. Repeat as fast as can to get 100 tapbacks (50 on each leg).

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Ski Jumps

INSTRUCTIONS

1. Start by standing tall with your feet shoulder width apart.
2. Using only your right foot, jump to the left about 2-3 feet and land on your left foot.
3. Gather yourself and then using only your left foot, jump to the right 2-3 feet and land on your right foot.
4. Repeat this as many times as you can for 30 seconds.

Bonus: After each time you jump, touch the ground with the same hand as the side you landed on.
Ex: Land on your left foot, touch the ground with your left hand.

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Cereal Bowl

INSTRUCTIONS

1. Lay flat on your back with feet together.
2. Bring your knees together and raise both legs up so that your feet are facing the ceiling.
3. In slow motion, stir the imaginary bowl of cereal with feet and keep hands under your bottom.
4. Repeat 30 times.

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Lay Down Hip Stretch

INSTRUCTIONS

1. Start by sitting at the edge of a bed in a relaxed position with your feet hanging off.
2. Lay back, and pull your right knee towards your chest while keeping your left leg hanging off the bed.
3. Pull your knee until you feel a stretch in your left hip and hold for 10-15 seconds.
4. Relax, switch legs, and then repeat 2-3 times per leg.

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Alligator Breath

INSTRUCTIONS

1. Stand with legs hip-width apart.
2. Spread arms out wide and inhale as you reach outward.
3. When you exhale, clap your hands together as many times as possible like baby alligator jaws.

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Cloud Watching

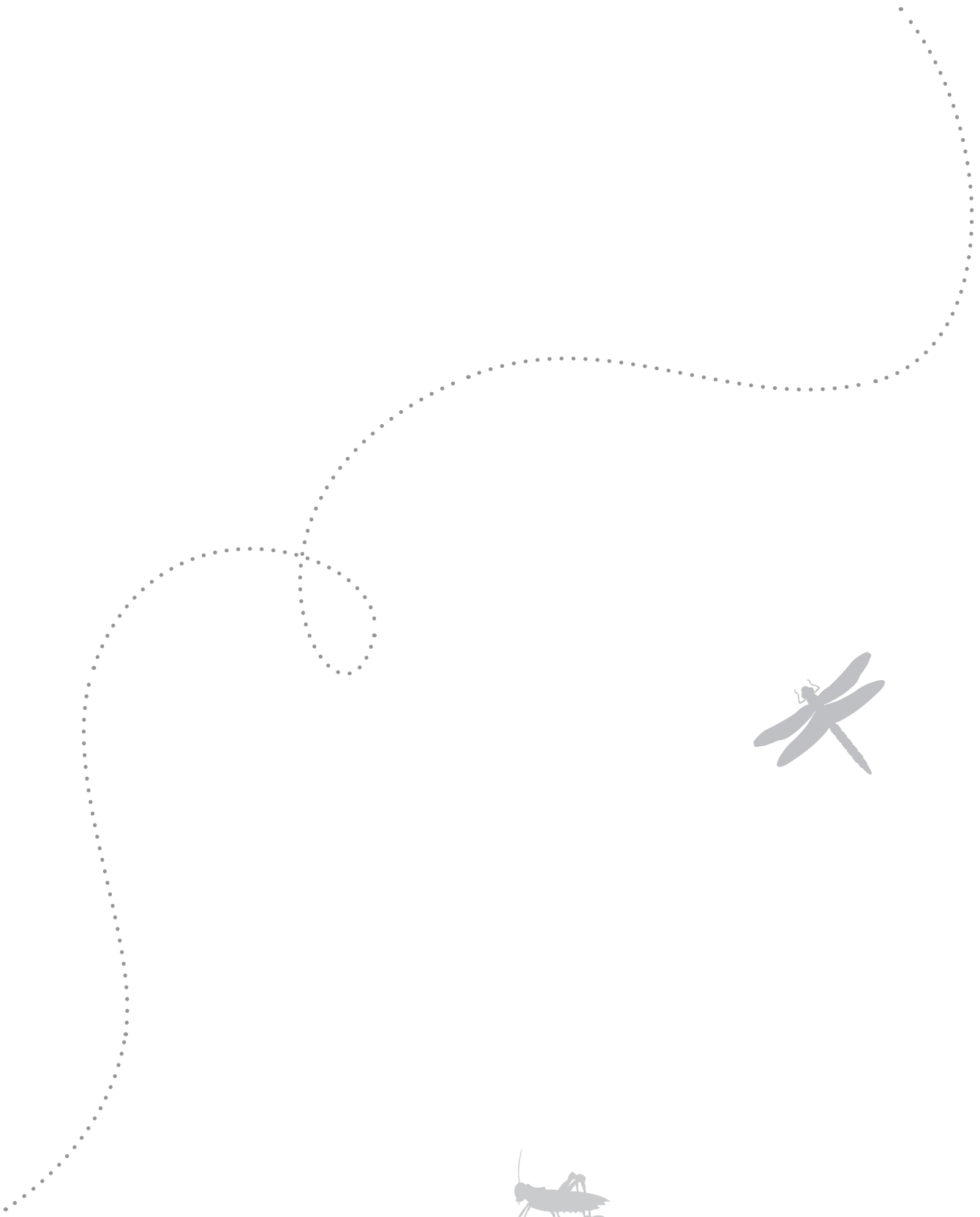
INSTRUCTIONS

1. Find a day where there are a lot of clouds in the sky.
2. Lay down on your back on the ground or in the grass and look up into the sky.
3. Watch and admire all the different clouds. Look at the different shapes they make, how fast/slow they're moving, and where they are moving to!

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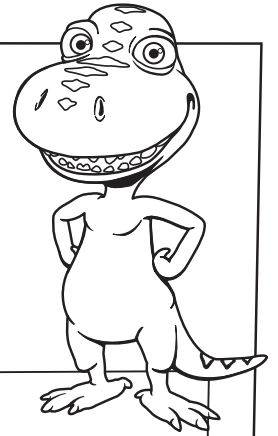


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Move Like a Dinosaur



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)

Funded by:



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ACTIVITY GUIDE

Episode 206: Earth's Hemispheres and Character Dialogue

Scan below to watch lesson



Words to Know

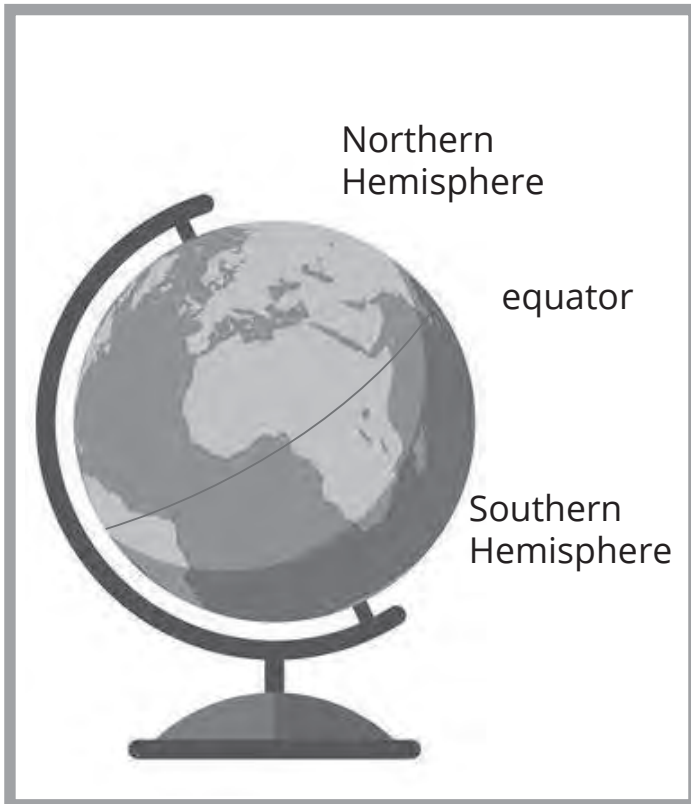
equator - The imaginary line around the middle of the Earth

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.



ACTIVITY GUIDE

Episode 205: Earthquakes, Eruptions and Making Words

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

Scan below to watch lesson



Foundational Skills

Read the words in the Word Bank. These are all processes that change the Earth's surface. Write a word from the Word Bank on the line that matches each picture and key word in the same row.

earthquake volcano tsunami landslide



wave



slide



erupt



shake



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

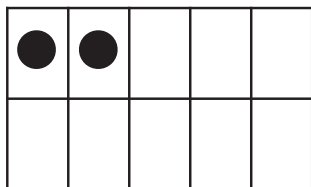
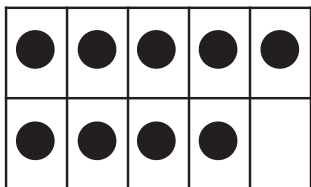
Combine each base word with the given prefix. Write the new word in the space provided and read each definition. Try using the new words in a sentence, and share them with a family member.

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

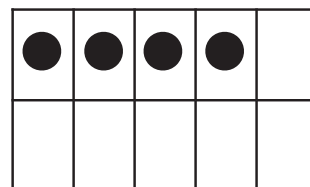
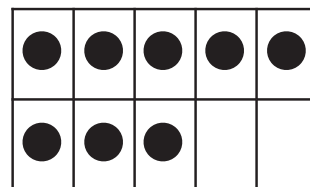


Make a 10 With D.C.

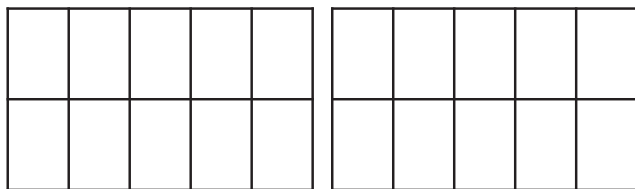
Directions: Use the ten frames to make 10. Solve the addition problem.



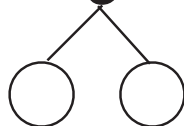
$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



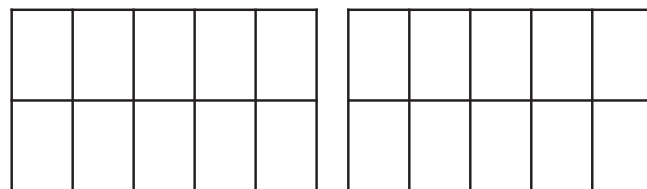
$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



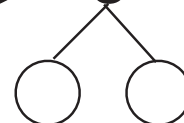
$$7 + 5 = \square$$



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



$$9 + 8 = \square$$



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



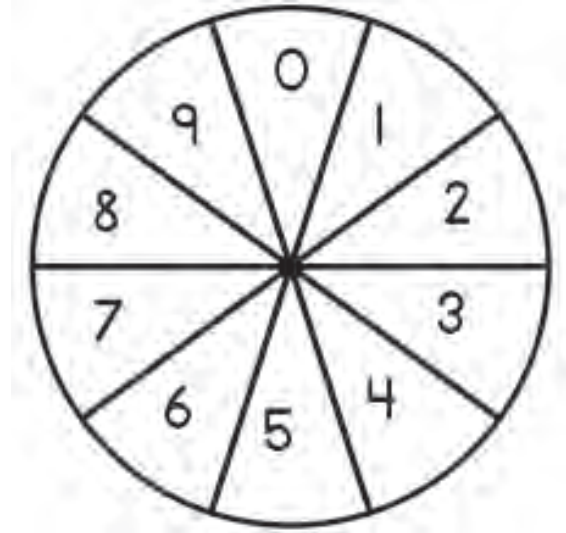
Which is Greater?

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 scrap paper 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!

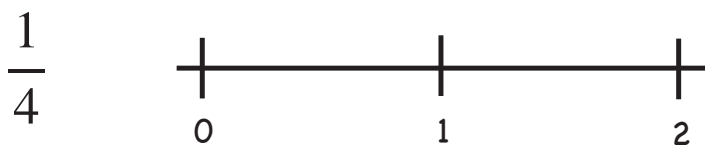
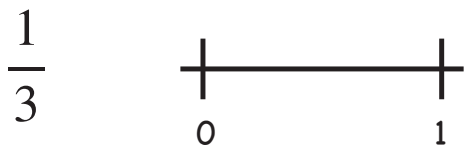
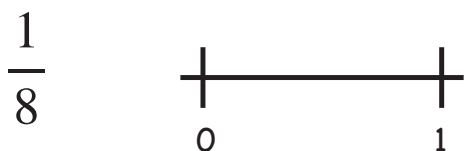
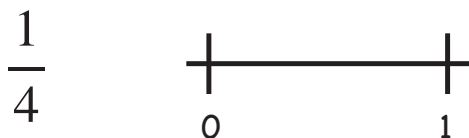


Round	Player 1	Symbol < > =	Player 2	Winner
1				
2				
3				
4				
5				



Locate the Fraction

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














Week 4: Engineering

July 10-16

Tinker, design, build, rebuild, and find engineering everywhere. Our featured careers this week are engineers from all kinds of specializations, auto design director, and software developer. Scan the QR code or visit MichiganLearning.org/Summer/Engineering to explore all of our videos this week.

Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO! Some of them are in this book, and some ask you to use your imagination or go outside.



Draw a family member's car	 60 mins. of activity	 Read for 20 minutes	Watch ArchiTREKS	Watch Read, Write, ROAR!
 Read for 20 minutes	 Watch Math Might	Name 3 things that use electricity	Ask a family member about their job	 60 mins. of activity
 60 mins. of activity	Try the hexagon challenge	 HAVE FUN! (Free Space)	Design a robot	 Read for 20 minutes
Watch Read, Write, ROAR!	Find a blue house	 Watch Math Might	Watch InPACT at Home	Design an Invention
Watch InPACT at Home	 Read for 20 minutes	Try a new food	 60 mins. of activity	Find a tall building in your neighborhood



Acting Out Structures



COLUMN



ARCH



COLUMN AND BEAM



DOME



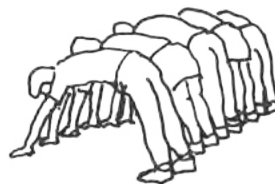
TENSION



CANTILEVER



LOAD AND SUPPORT



VAULT / TUNNEL



COMPRESSION



FLYING BUTTRESSES

How does your house stay standing? Architects use structures like columns, beams, and arches to make buildings strong and be sure they last for many years. Grab a grown-up or a friend and try to make columns, beams, and arches with your body!



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.

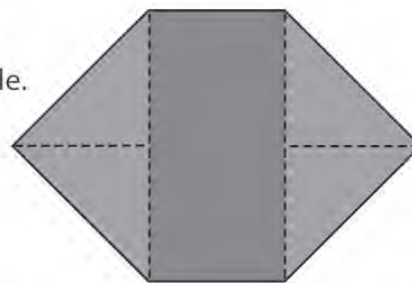


The Hexagon Challenge

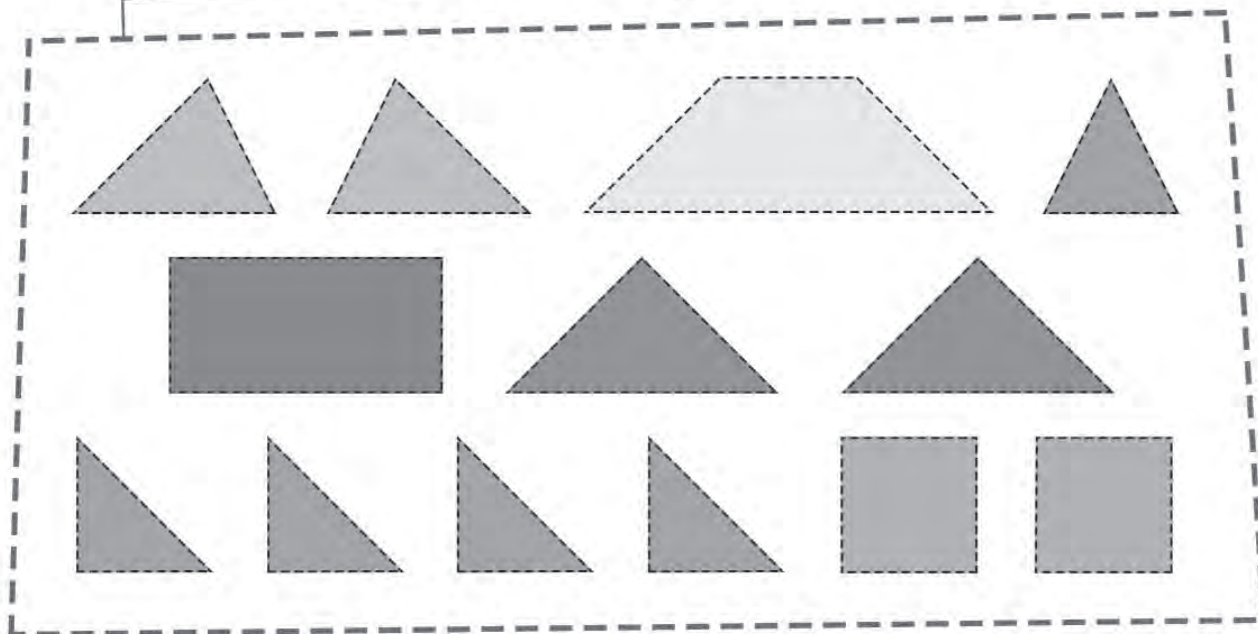
Use your Odd Squad agent skills to solve The Hexagon Challenge. Print out the two pages.

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

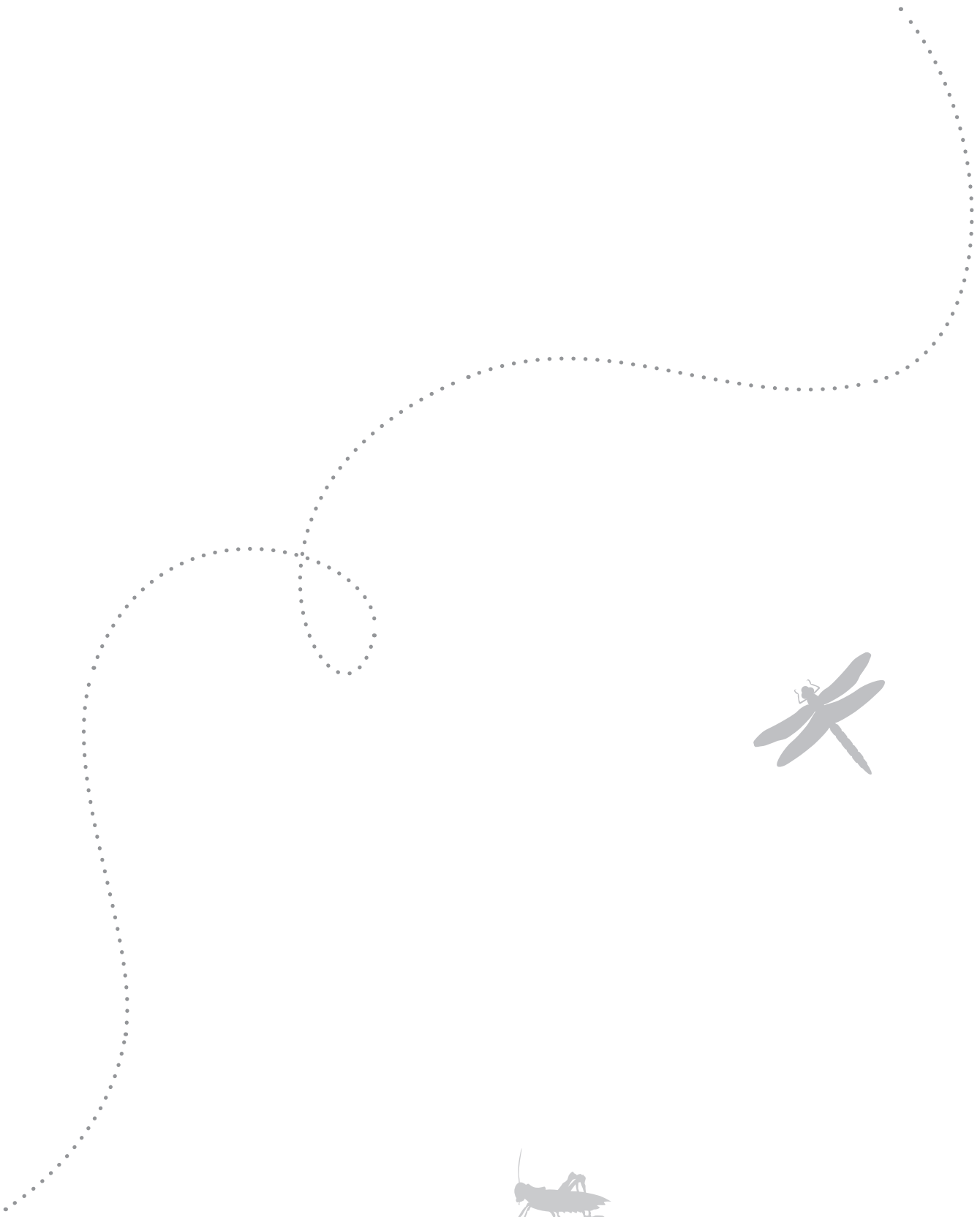


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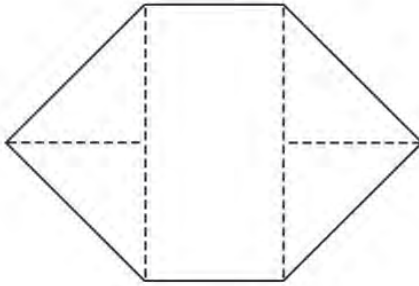


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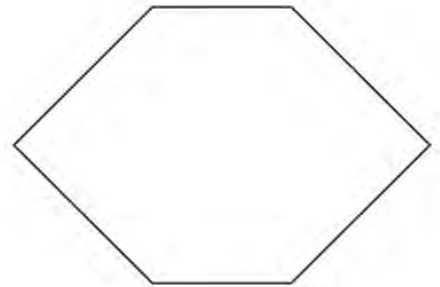
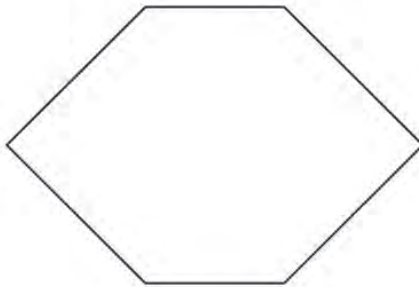
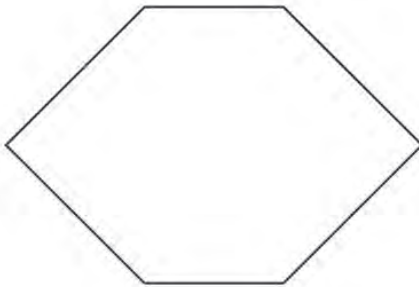
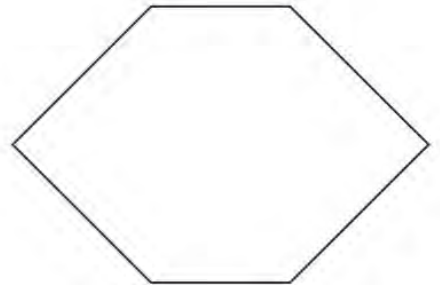
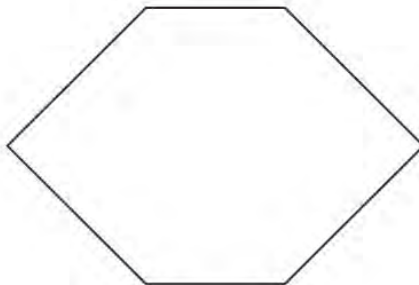
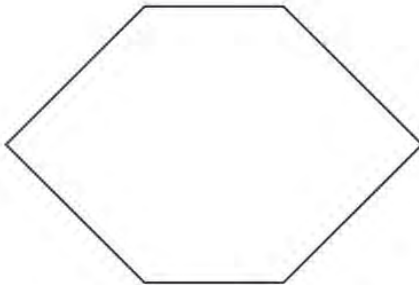
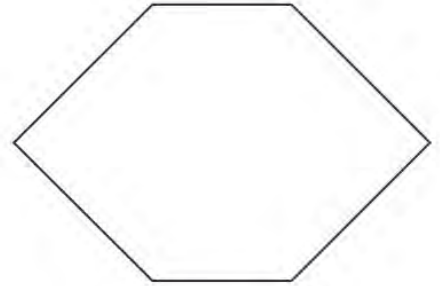
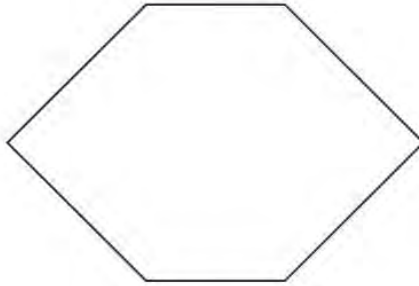




The Hexagon Challenge



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 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

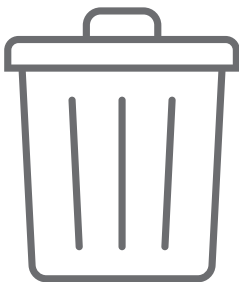
Recycling is when we take materials that we were going to throw away and put them through a process so they can be made into something else.

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 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



Near Doubles with Abracus

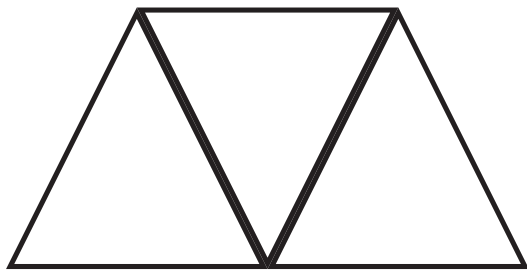
Directions: Use the ten frames to solve the problems.

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

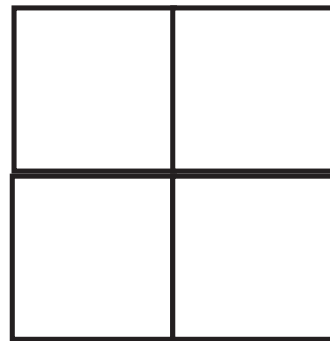


Describe the Shape

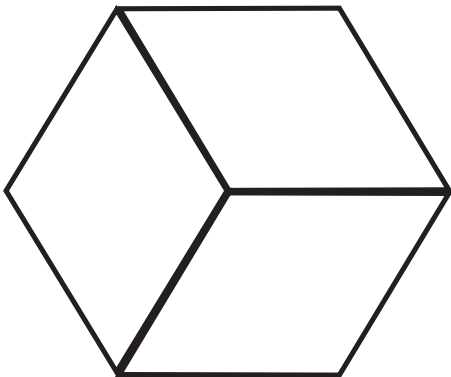
Directions: Fill in the blanks. (Example: The rectangle is made up of 3 squares.)



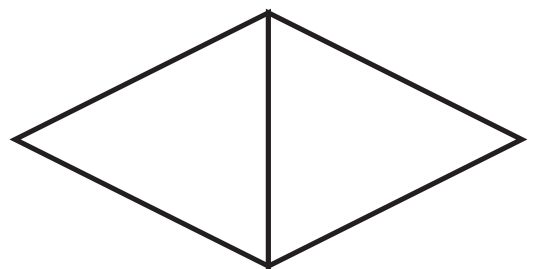
The _____ is made up
of _____.



The _____ is made up
of _____.



The _____ is made up
of _____.

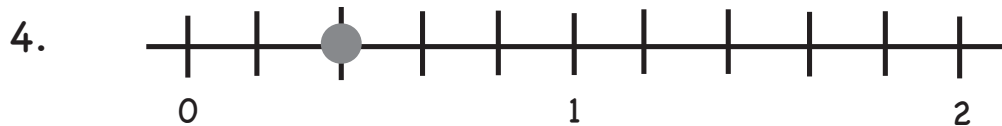


The _____ is made up
of _____.



Guess the Fraction

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














Week 5: Our Stories

July 17-23

From legends to our everyday lives, stories shape who we are. Our featured careers this week are writer, archaeologist, and teacher. Scan the QR code or visit MichiganLearning.org/Summer/Stories to explore all of our videos this week.

Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO! Some of them are in this book, and some ask you to use your imagination or go outside.



Learn about a family member's job	 60 mins. of activity	 Read for 20 minutes	Read a story from a different country	Watch Read, Write, ROAR!
 Read for 20 minutes	 Watch Math Mights	Watch Cartoon Academy	Draw a family portrait	 60 mins. of activity
 60 mins. of activity	Make a family memory book	 HAVE FUN! (Free Space)	Try a new food	 Read for 20 minutes
Watch Read, Write, ROAR!	Write an original story	 Watch Math Mights	Watch InPACT at Home	Make a family recipe
Watch InPACT at Home	 Read for 20 minutes	Draw a comic strip	 60 mins. of activity	Name facial expressions with Cartoon Academy



Name _____

My Family and Me

Art Supplies

Washable markers, crayons or pencils

Hole punch

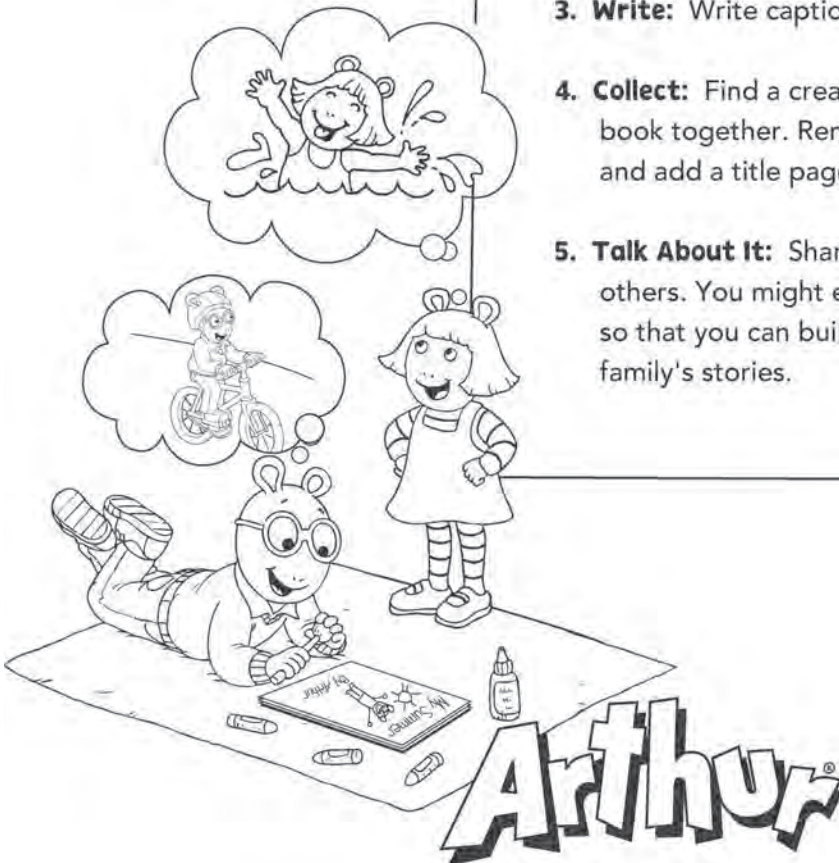
Paper

Ribbon or string

Directions:

Families are all unique. Make your own memory book to celebrate you and your family. Think about your family members, your family traditions, and how you spend time together.

- 1. Recollect:** Think about your family members, how you help each other, and what special qualities you have.
- 2. Create:** Use art materials and paper to illustrate your *My Family and Me* book.
- 3. Write:** Write captions to explain your illustrations.
- 4. Collect:** Find a creative way to bind the pages of your book together. Remember to make a title for your book and add a title page.
- 5. Talk About It:** Share your *My Family and Me* book with others. You might encourage them to make their own so that you can build a collective volume of your family's stories.



Find more games and activities at pbskidsforparents.org

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ABCMouse.com



_____ Name

Our Family Recipe: _____

Use this card to record a family recipe, it might be one that has been passed down from generation to generation. You can write or draw your favorite recipe here to share with a family member or friend.

INGREDIENTS

Draw pictures of the ingredients.

DIRECTIONS

Draw pictures of the steps to follow to make the recipe. Label the steps with numbers.

Large empty rectangular box for drawing and labeling steps.



I LOVE THE SPECIAL THINGS I DO WITH YOU.

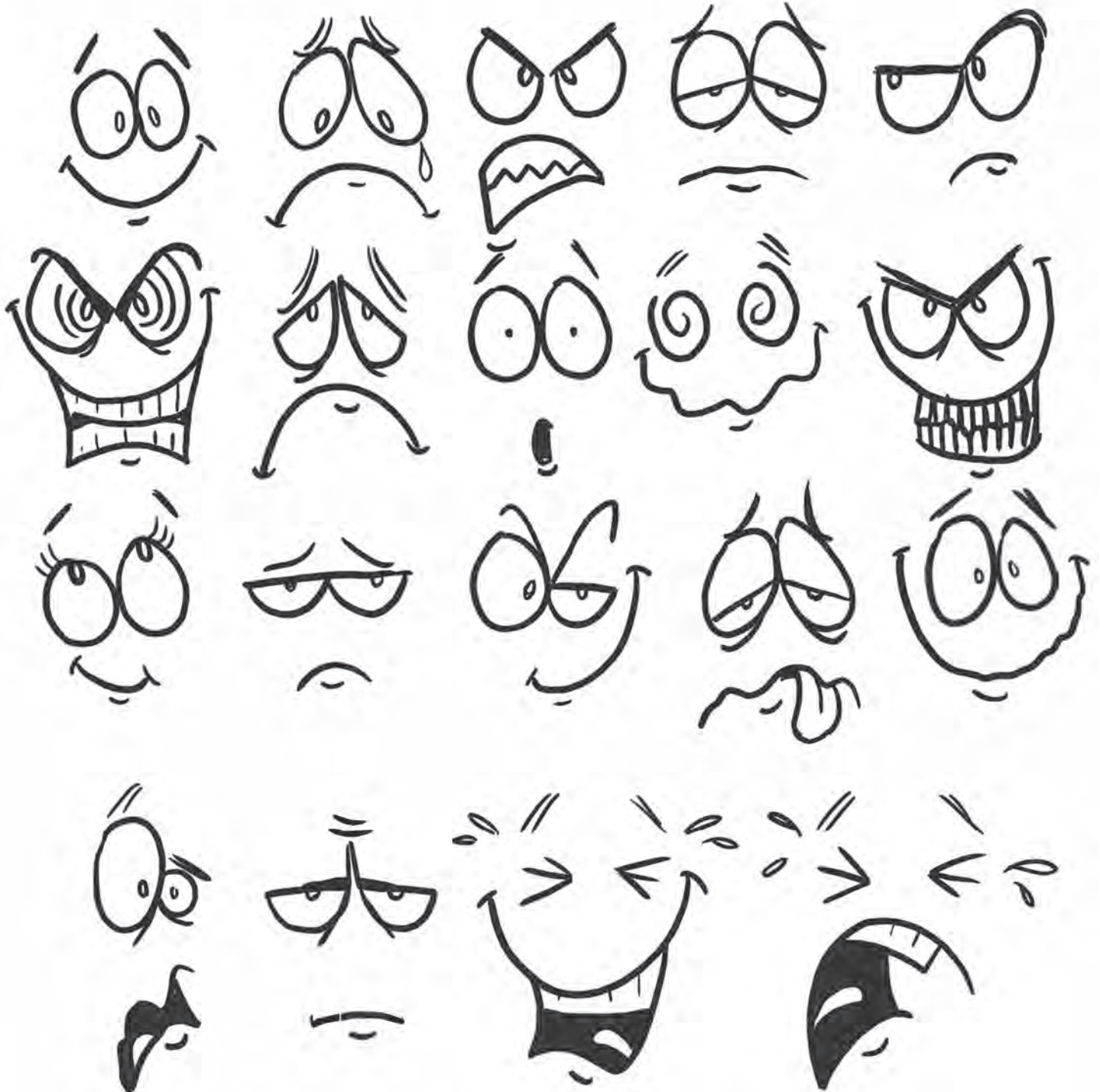
Find more games and activities at pbskidsforparents.org



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Emotion: How a character feels.
Expression: How the characters face conveys emotion.



How do these characters feel?



ACTIVITY GUIDE

Episode 210: Traveling Through Space

Scan below to watch lesson



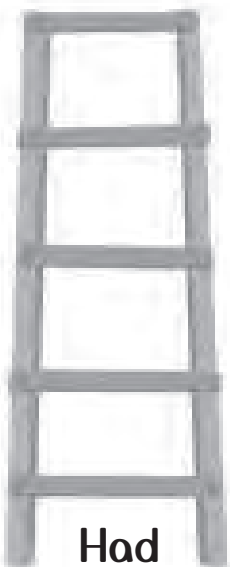
High Frequency Words

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

Or When What

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**

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.

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.



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**

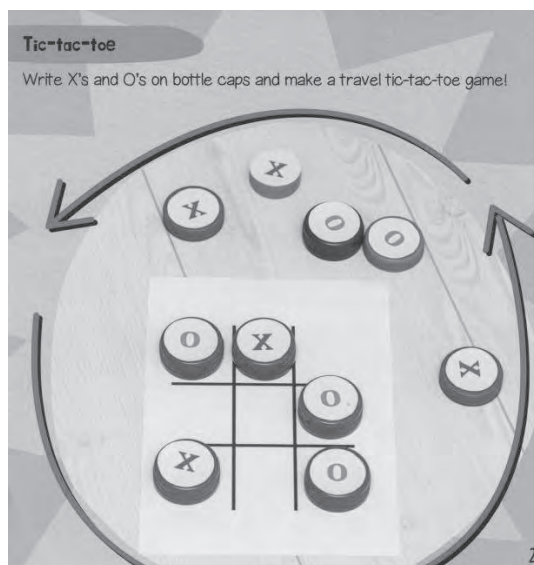
When a word contains the spelling pattern **o-u-g-h**, those letters put together can represent seven different sounds. The chart below has words with four of the most common sounds.

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.





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?

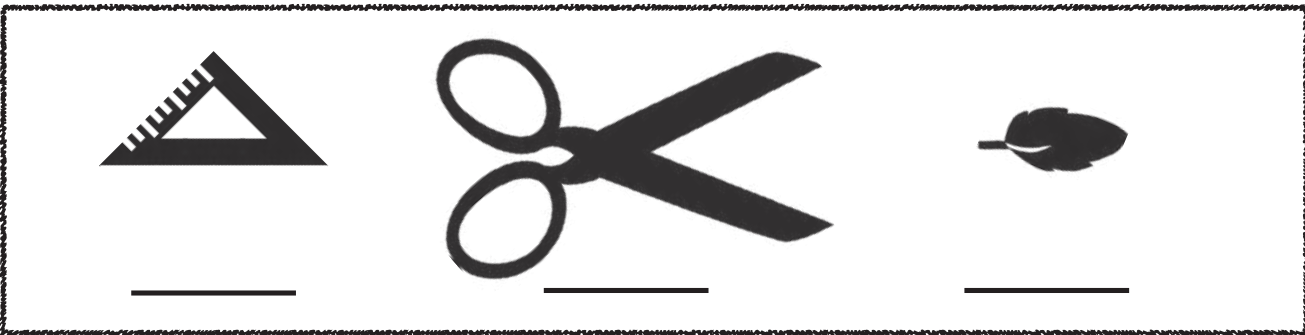
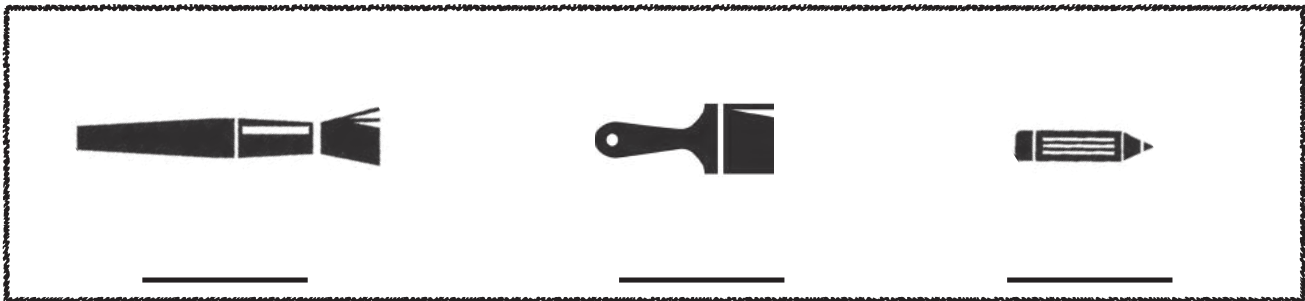
newspaper

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

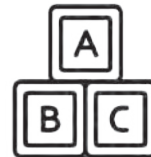
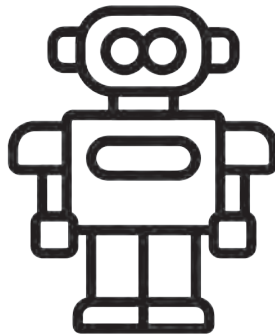
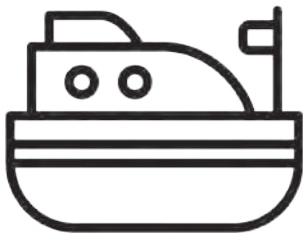


Compare The Length

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 _____.



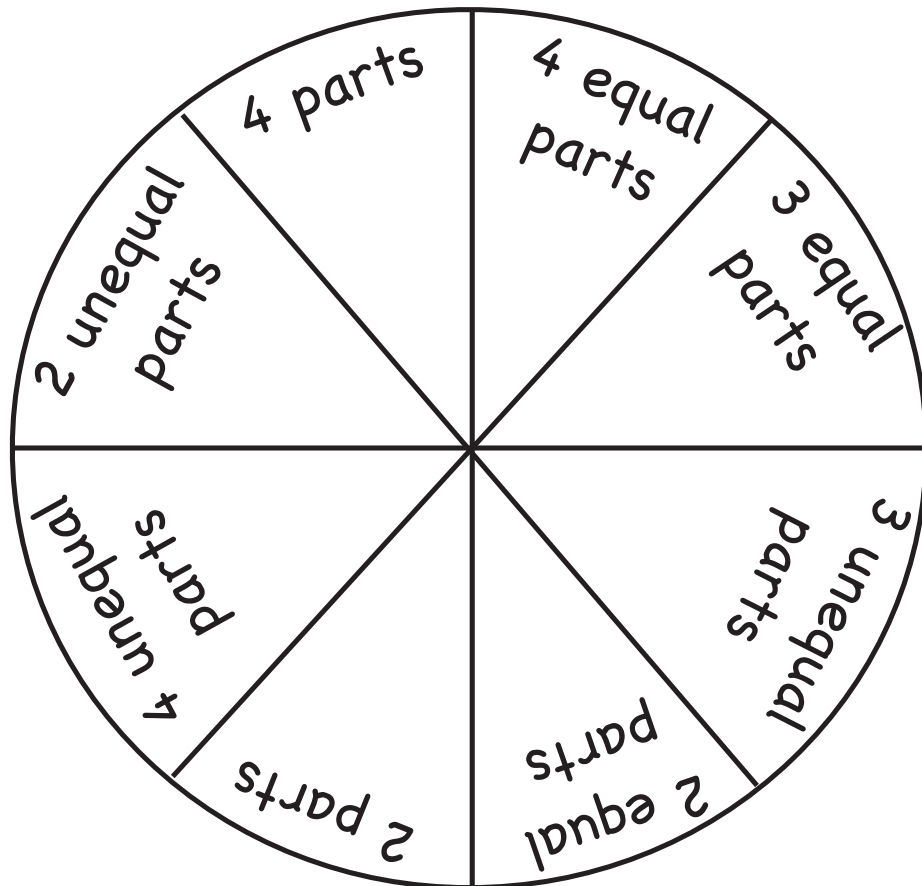
Split the Shape

Materials:

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


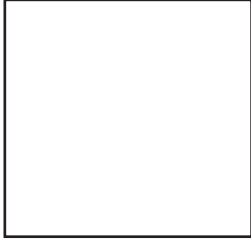


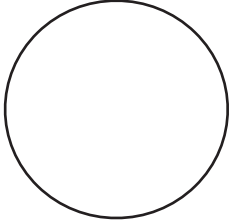
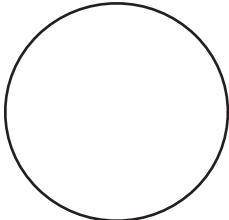


Directions:

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
 _____	 _____
 _____	 _____
 _____	 _____
 _____	 _____



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	$\frac{\square}{\square} = \frac{\square}{\square}$	Player 1 or Player 2	Round 5	$\frac{\square}{\square} = \frac{\square}{\square}$	Player 1 or Player 2
Round 2	$\frac{\square}{\square} = \frac{\square}{\square}$	Player 1 or Player 2	Round 6	$\frac{\square}{\square} = \frac{\square}{\square}$	Player 1 or Player 2
Round 3	$\frac{\square}{\square} = \frac{\square}{\square}$	Player 1 or Player 2	Round 7	$\frac{\square}{\square} = \frac{\square}{\square}$	Player 1 or Player 2
Round 4	$\frac{\square}{\square} = \frac{\square}{\square}$	Player 1 or Player 2	Round 8	$\frac{\square}{\square} = \frac{\square}{\square}$	Player 1 or Player 2
















Week 6: Great Lakes

July 24-30

Dive in and explore the lakes that make Michigan special. Our featured careers this week are meteorologist, oceanographer, and water chemist. Scan the QR code or visit MichiganLearning.org/Summer/Lakes to explore all of our videos this week.

Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO! Some of them are in this book, and some ask you to use your imagination or go outside.



 Go fishing	 60 mins. of activity	 Read for 20 minutes	 Watch the sunset	Watch Read, Write, ROAR!
 Read for 20 minutes	 Watch Math Might	Name all 5 Great Lakes	Design a boat or ship	 60 mins. of activity
 60 mins. of activity	Make a pond viewer	 HAVE FUN! (Free Space)	Watch BeLEAF It or Not	 Read for 20 minutes
Watch Read, Write, ROAR!	 Go swimming	 Watch Math Might	Watch InPACT at Home	 Play in the rain
Watch InPACT at Home	 Read for 20 minutes	Make bubble art	 60 mins. of activity	Talk to someone who works outside



A POND WITH A VIEW

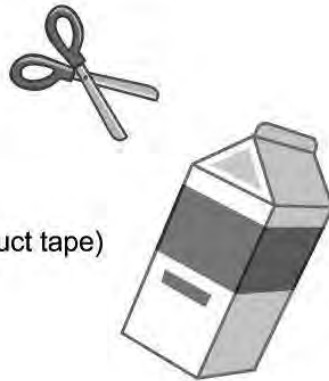
DIFFICULTY: EASY

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!



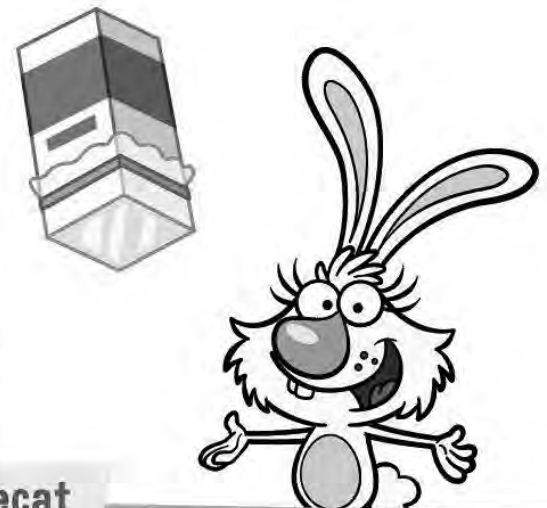
MATERIALS

- 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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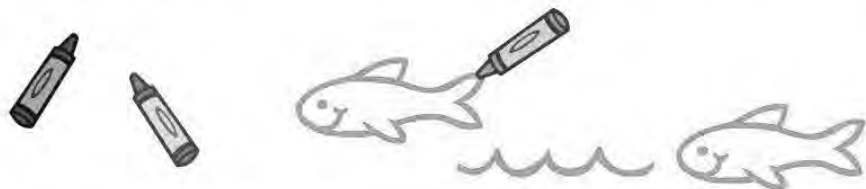
POND VIEWING TIPS

- 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.



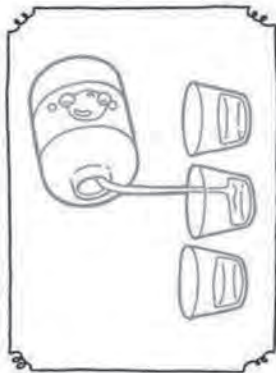
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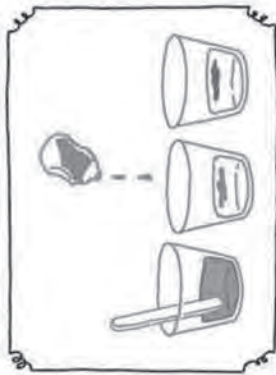
BUBBLE ART



Blowing Bubbles



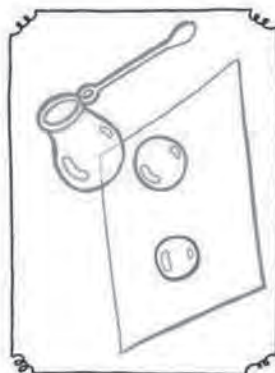
1. Put bubble liquid (store bought or homemade*) in a few cups.



2. Add 8-10 drops of food coloring in each cup and mix.



3. Put a bubble wand into the cup.



4. Remove the wand and blow bubbles on a piece of paper.



5. Look at the beautiful art you made! (Let the paper dry before you touch it or the bubbles will slip off the paper.)



Materials

- Bubble liquid (homemade or store bought)
- Bubble wand
- Small cups
- Food coloring
- Paper

*Recipe for homemade bubble liquid:
Mix ½ cup dish soap and 1 cup water.
(If you have corn syrup, add 3 tbsp to the bubble liquid.)



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ACTIVITY GUIDE

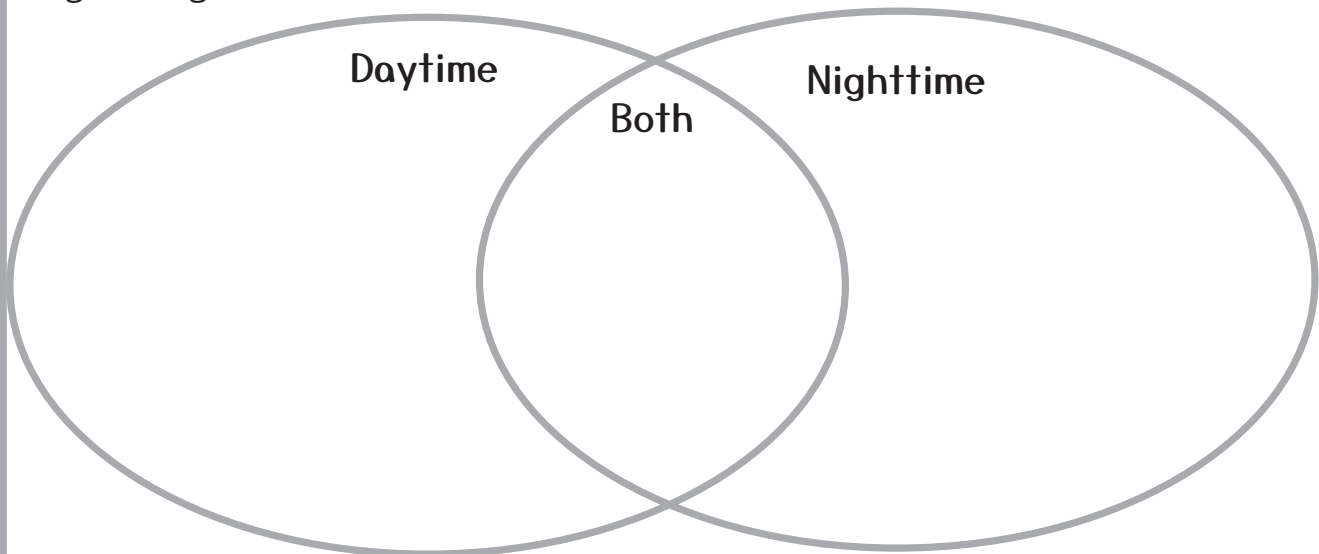
Episode 211: Astronaut Training
Book: *Astronaut Training* by Aneta Cruz

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.



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

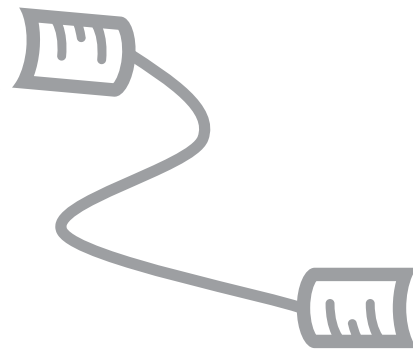
Properties of Metal:

- 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 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

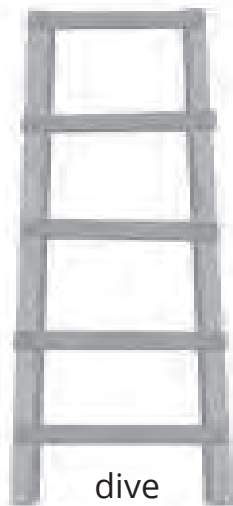
Think About It

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

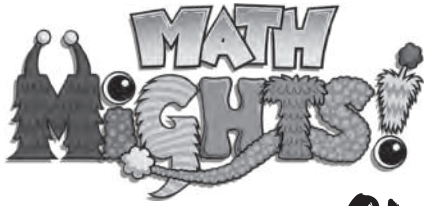


Measuring with a Tool

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.

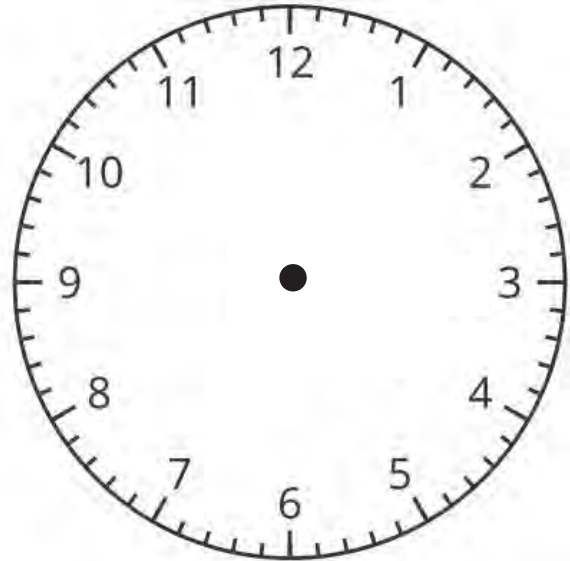
Object	Length
Example: pencil	6 paperclips



Clocks and Time

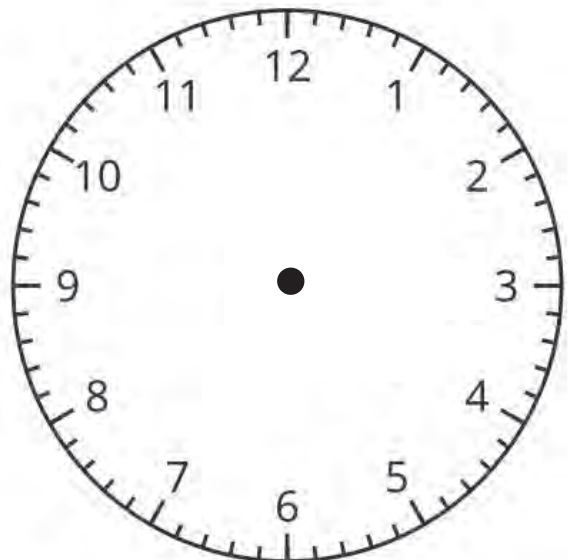
1. Sierra wakes up in the morning at 7:15. Show this time on the clock face below. Circle a.m. or p.m.

a.m. or p.m.



2. Sierra goes to bed at 8:45. Show this time on the clock face below. Circle a.m. or p.m.

a.m. or p.m.





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		<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="margin-right: 5px;">—</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> </div>
Round 2		<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="margin-right: 5px;">—</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> </div>
Round 3		<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="margin-right: 5px;">—</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> </div>
Round 4		<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="margin-right: 5px;">—</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> </div>
Round 5		<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="margin-right: 5px;">—</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> </div>




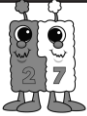







Week 7: Around the World

July 31 – August 6

Experience food, art, music, and cultures from around the globe. Our featured careers this week are chef, airplane pilot, and cybersecurity expert. Scan the QR code or visit MichiganLearning.org/Summer/World to explore all of our videos this week.

Use the sheet below to mark off this week’s activities as you complete them. See if you can get a BINGO! Some of them are in this book, and some ask you to use your imagination or go outside.



Say hello in a different language	 60 mins. of activity	 Read for 20 minutes	Write a story about traveling	Watch Read, Write, ROAR!
 Read for 20 minutes	 Watch Math Might	Try a new food	Learn about a family member’s job	 60 mins. of activity
 60 mins. of activity	Watch Let’s Go Luna	 HAVE FUN! (Free Space)	Write or draw in “A Visit from Luna”	 Read for 20 minutes
Watch Read, Write, ROAR!	Name 5 countries	 Watch Math Might	Watch InPACT at Home	Watch Virtual Vitamin Z
Watch InPACT at Home	 Read for 20 minutes	Try the architecture scavenger hunt	 60 mins. of activity	Create a musical instrument




Greetings from Around the World

**HOW TO
GREET A FRIEND
IN: SPANISH**

iHola!

(It sounds like:
"OH-lah")



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**HOW TO
GREET A FRIEND
IN: RUSSIAN**

Privyet!

(It sounds like:
"preev-YET")



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**HOW TO
GREET A FRIEND
IN: HINDI**

Namaste

(It sounds like:
"NA-mas-te")



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**HOW TO
GREET A FRIEND
IN: ARABIC**

Marhaba!

(It sounds like:
"MAR-ha-ba")



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**HOW TO
GREET A FRIEND IN:
MANDARIN
CHINESE**

Ni hao!

(It sounds like:
"nee-haow")




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**HOW TO
GREET A FRIEND
IN: FRENCH**

Bonjour!

(It sounds like:
"bon-ZHUR")



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**HOW TO
GREET A FRIEND
IN: SWAHILI**

**Habari
yako?**

(It sounds like:
"ha-BAR-ee YA-ko")



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**HOW TO
GREET A FRIEND
IN: JAPANESE**

Kon'nichiwa!

(It sounds like:
"cone-EE-CHEE-WAH")



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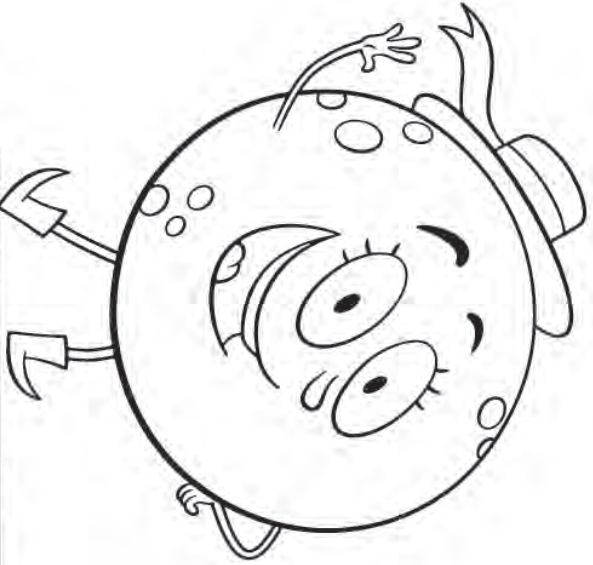


Let's Go Luna!

A Visit from Luna!

Name _____

Circus Fabuloso travels around the world to learn about culture, customs, and traditions. If Circus Fabuloso visited your neighborhood and spent time with your family, what would you want to share with Luna, Carmen, Andy, and Leo?



Find more game and activities at pbskidsforparents.org



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Architecture Scavenger Hunt



pbskids.org/ruff



Can you find these shapes around your school or in the buildings in your neighborhood? Draw a picture of the shape and where you found it.

A large rectangular box divided into two sections. The top section contains a simple outline of a rectangle. The bottom section is blank for drawing.A large rectangular box divided into two sections. The top section contains a simple outline of a circle. The bottom section is blank for drawing.A large rectangular box divided into two sections. The top section contains a simple outline of a semi-circle. The bottom section is blank for drawing.A large rectangular box divided into two sections. The top section contains a simple outline of a triangle. The bottom section is blank for drawing.

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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



ACTIVITY GUIDE

Episode 214: Comparing Texts and Making Words

Book: *The Water Walker* by Joanne Robinson

Scan below to watch lesson



Compare It

Choose two fiction books to read and then fill in the chart below.

Comparing Literature		
Title of Book 1	Story Elements	Title of Book 2
	Setting	
	Characters	
	Problem	
	Solution	

Phonics Skills

Let's make and read words as we move up the word ladder. Start at the bottom. Read the word **sister**. Remember that we can split words with more than one syllable between consonants (**sis/ter**) to make them easier to read. Follow the directions to see how to change the first syllable in each word as you move up the ladder. Each time you make a new word, practice reading and writing it before moving further up the ladder.



Change **crit** to **chap**

Change **af** to **crit**

Change **win** to **af**

Change **sis** to **win**

Think About It

Using the information you filled out in the chart above, answer the following questions.

How are the two books alike?

How are the two books different?



ACTIVITY GUIDE

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

Book: *Ajjaak ("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	



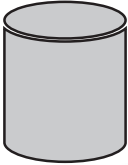
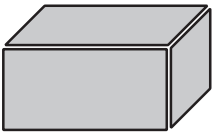
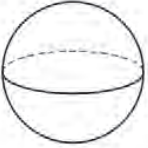
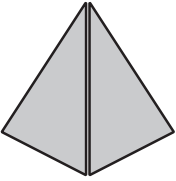
Sort Solid Shapes



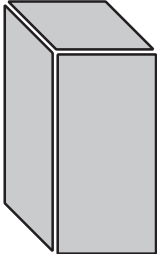
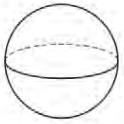
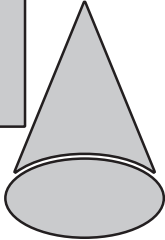
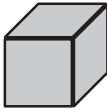

Directions:

1. Look at labels below. Figure out which box represents each label and draw a line to match them up.

drag label here

drag label here

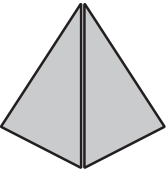
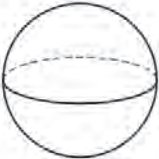

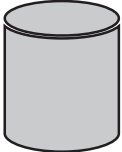
shapes that are tall	shapes that are short
----------------------	-----------------------

shapes that roll	shapes that don't roll
------------------	------------------------

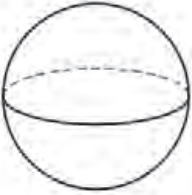
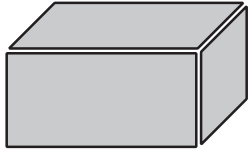
round	flat
-------	------

shapes with straight sides	shapes with NO straight sides
----------------------------	-------------------------------

drag label here

drag label here

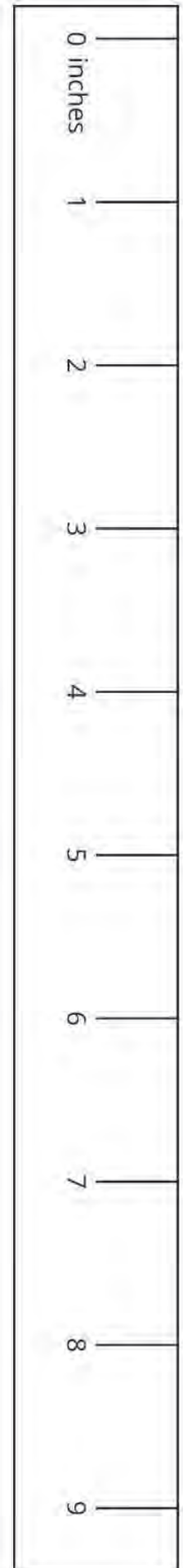
	
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Measure to the Nearest Half or Quarter Inch

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.



Coin Compare



Materials: Spare coins from around the house

Directions:

1. Put all the coins in a pile.
2. Player 1 and Player 2 each grab a small handful of coins from the pile.
3. Each player finds the value of the collection of coins in their handful.
4. Both players compare their coin values. The player with the greatest coin value takes both handfuls.
5. Continue to play until all the coins have been taken from the pile.
6. The player with the most coins at the end wins!

	Player 1	Player 2	Which player has the greatest value?
1	_____ ¢	_____ ¢	
2	_____ ¢	_____ ¢	
3	_____ ¢	_____ ¢	
4	_____ ¢	_____ ¢	
5	_____ ¢	_____ ¢	
6	_____ ¢	_____ ¢	
7	_____ ¢	_____ ¢	
8	_____ ¢	_____ ¢	
9	_____ ¢	_____ ¢	
10	_____ ¢	_____ ¢	














Week 8: Space

August 7-13

Meet astronauts and virtually visit the planets and stars. Our featured careers this week are astronaut, astronomer, and computer scientist. Scan the QR code or visit MichiganLearning.org/Summer/Space to explore all of our videos this week.

Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO! Some of them are in this book, and some ask you to use your imagination or go outside.



 Stargaze	 60 mins. of activity	 Read for 20 minutes	Draw a space creature	Watch Read, Write, ROAR!
 Read for 20 minutes	 Watch Math Might	Create your own constellation	Name 3 planets in our solar system	 60 mins. of activity
 60 mins. of activity	Watch Ready Jet Go	 HAVE FUN! (Free Space)	Look at the clouds	 Read for 20 minutes
Watch Read, Write, ROAR!	Make flashlight constellations	 Watch Math Might	Watch InPACT at Home	Visit a new place
Watch InPACT at Home	 Read for 20 minutes	Design a rocket ship	 60 mins. of activity	 Stargaze

SPACE CREATURE

Scribbles
and
Ink



Draw a
space creature's
head here!



Have a friend
draw its
body here.



Then you
draw its legs and
feet here.



pbskids.org



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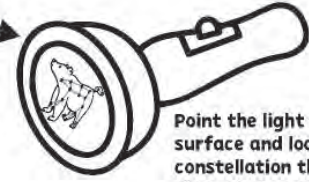
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Flashlight Constellations

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.

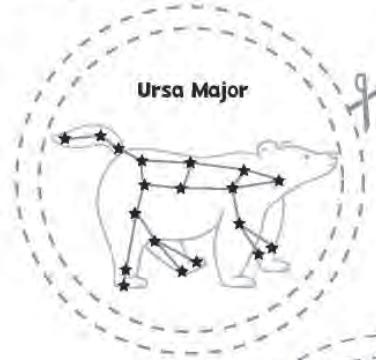
Choose the size circle that fits on your flashlight lens, cutting along the inner or outer dashed circle. Flip the picture so it's facing the flashlight.



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.



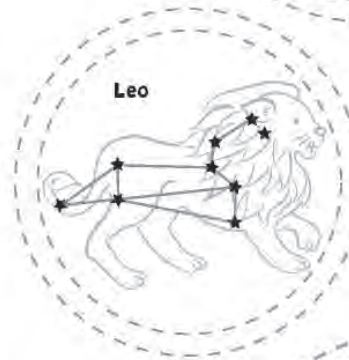
URSA MINOR

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.



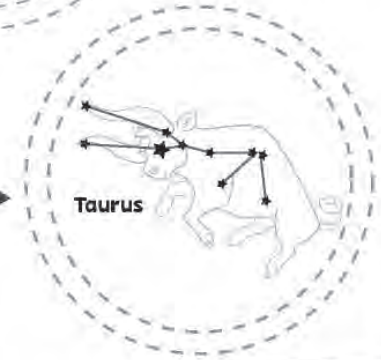
LEO THE LION

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

Find more games and activities at pbskidsforparents.org

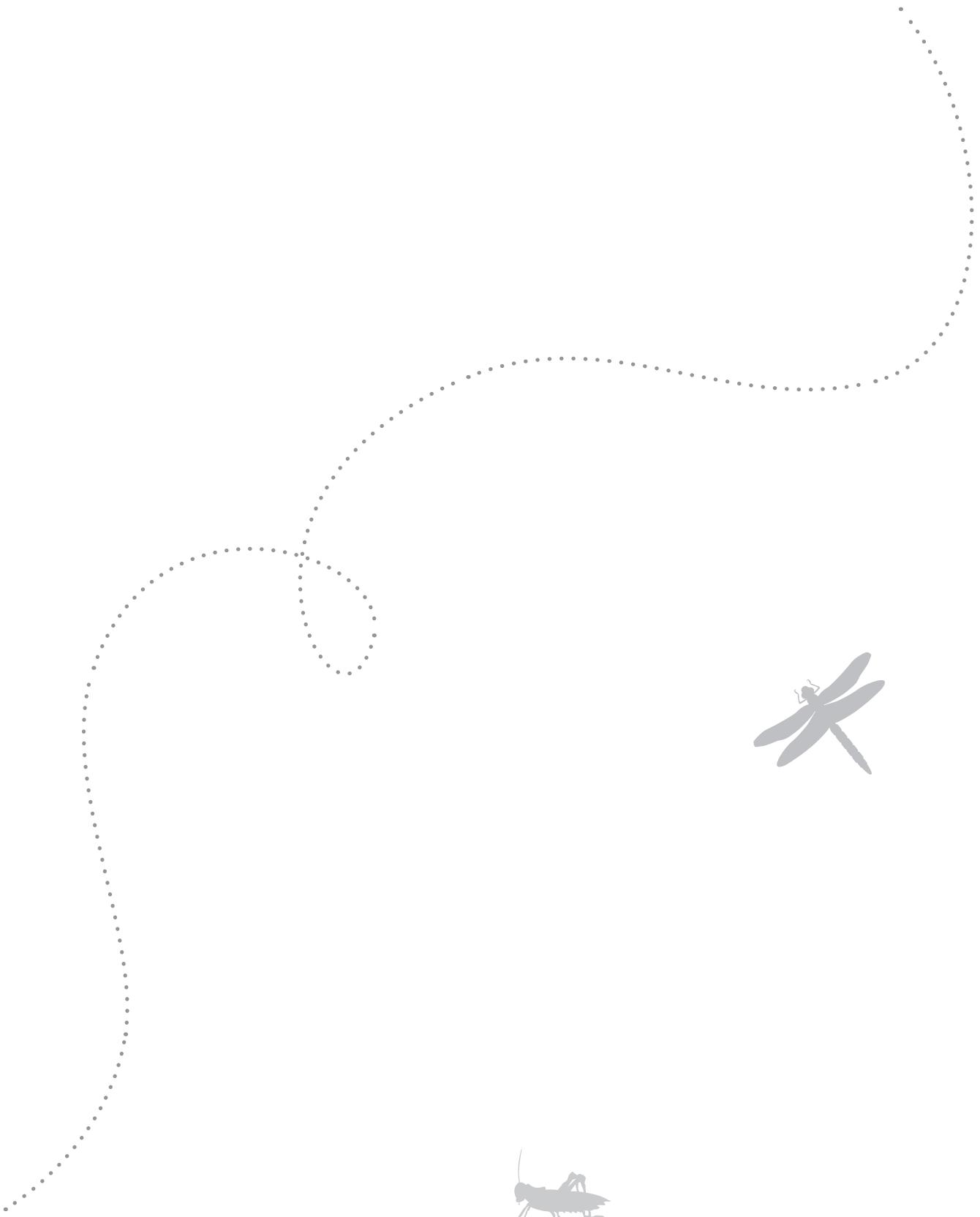
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Flashlight Constellations

Constellation Key

URSA MAJOR

The Great Bear



URSA MINOR

The Little Bear



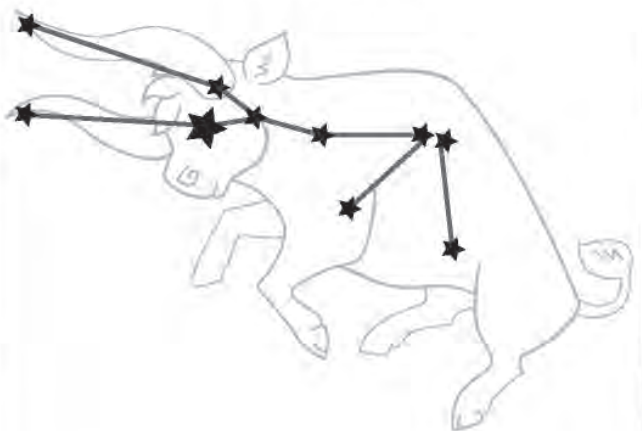
LEO

The Lion



TAURUS

The Bull



WIND DANCER
FILMS

Find more games and activities at pbskidsforparents.org

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Scan below to watch lesson



ACTIVITY GUIDE

Episode 216: Our Round, Round World and Plurals

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

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,

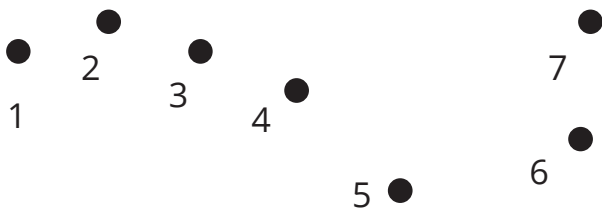
Singular (1): glass

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 🖐️.



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

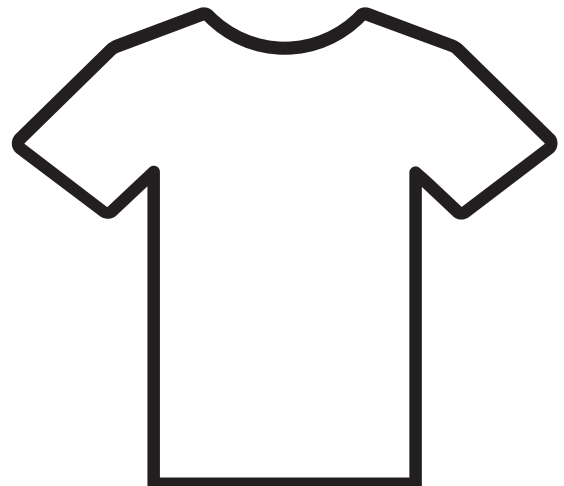
Choose one compound word that you underlined above. Write each word that makes up the compound word on a blank below. Rewrite the word from the paragraph on the next line..

_____ + _____
word word

Is this word a simple or complex compound word?

Try It

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





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**

_____.

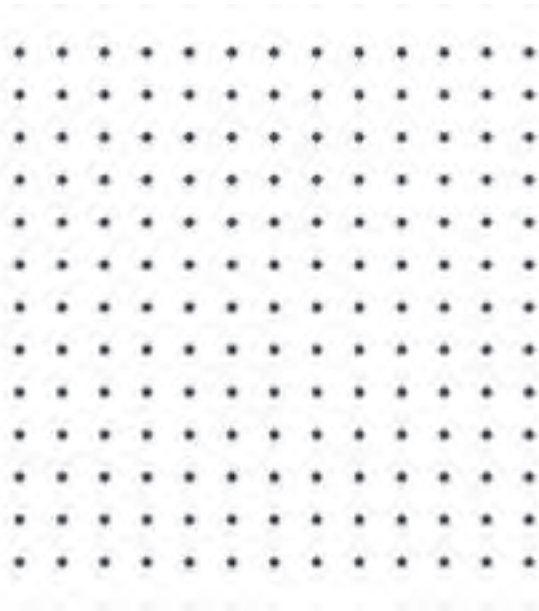
_____ **is** _____ **because**

_____.

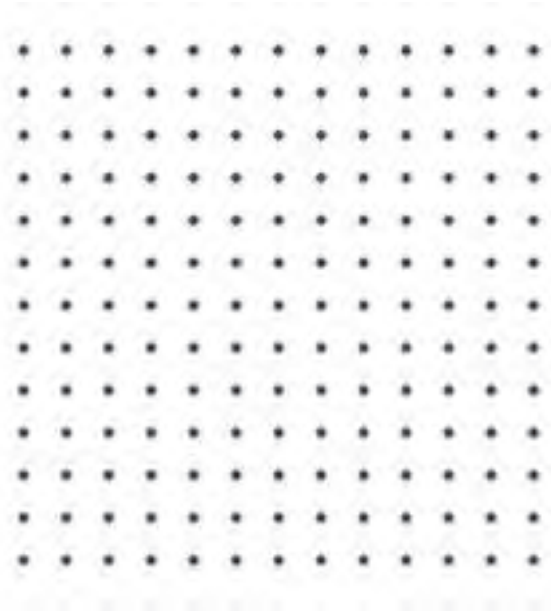


Draw Triangles, Rectangles, and Squares

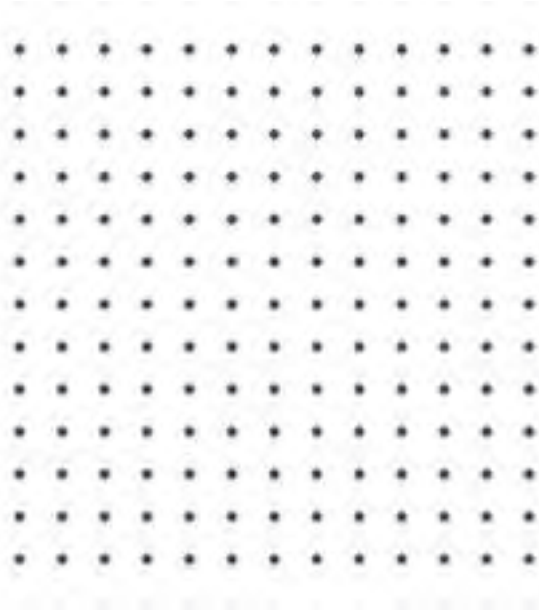
Draw a triangle.



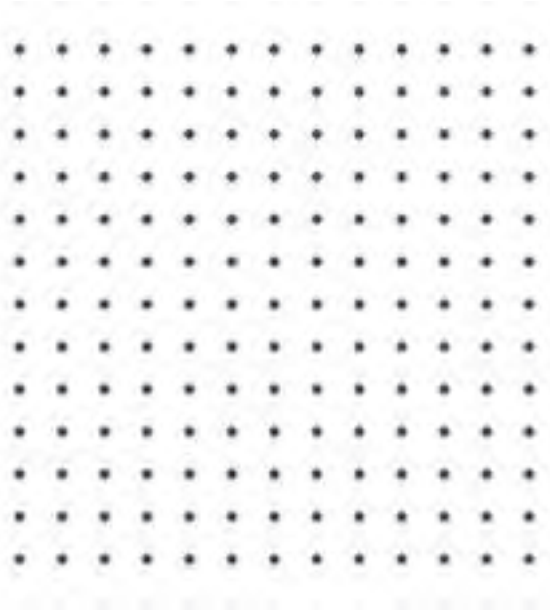
Draw a non-triangle.



Draw a rectangle.



Draw a non-rectangle.





The Toy Store

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



soccer ball
\$1.00



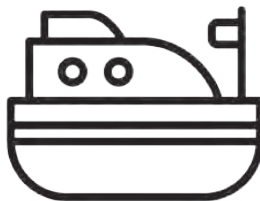
puzzle
15¢



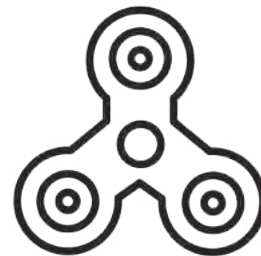
airplane
25¢



castle
99¢

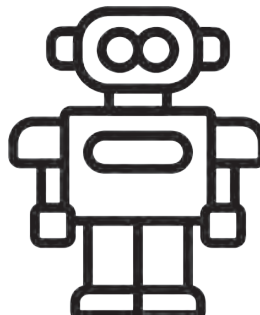


boat
20¢



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.

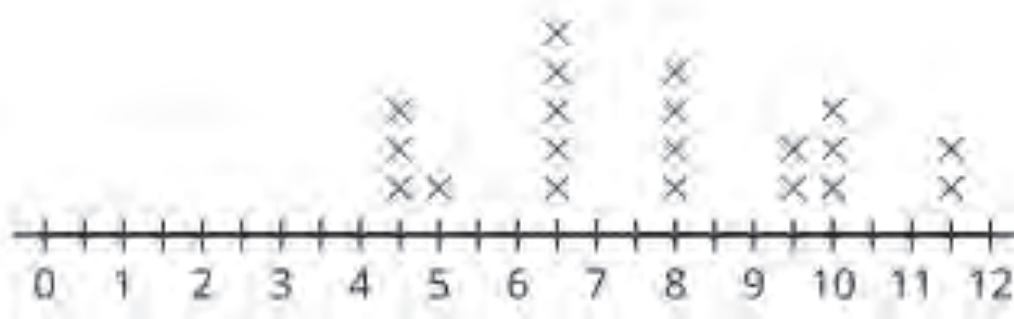
You buy five puzzles. How much change do you get from a one dollar bill?

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



Interpret Data From a Line Plot

Directions: Select **ALL** of the statements that are true about the measurements in the line plot below.



length of paper airplanes (inches)

- A. 5 paper airplanes had a length of $6 \frac{1}{2}$ inches.
- B. 6 paper airplanes had a length of $9 \frac{1}{2}$ inches.
- C. There were 12 paper airplanes measured.
- D. There were 20 paper airplanes measured.
- E. The shortest paper airplane was 5 inches.
- F. The shortest paper airplane was $4 \frac{1}{2}$ inches.



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HOW DO I SIGN UP?

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WHERE IS IT?

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Call: 211

Text: Food to 304-304

Mande por texto "Comida" al 304-304



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ELEMENTARY**

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