

SPECIAL THANKS TO OUR MICHIGAN LEARNING CHANNEL PARTNERSHIPS:

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WKAR - East Lansing Detroit Public Television WCMU - Mount Pleasant WDCQ - Saginaw WGVU - Grand Rapids WNIT - South Bend WNMU - Marquette

Partner PBS Stations

PBS PBS Books PBS Kids APT (Alabama Public Television) LPB (Louisiana Public Broadcasting) PBS SoCal PBSNC TPT (Twin Cities PBS) WCMU WHRO WIMAGE WNET (New York Public Media) WQED WUCF

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



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

The Michigan Learning Channel is funded through a grant awarded by the Michigan Department of Education and the U.S. Department of Education.



DEAR GROWN-UPS,

Summer is full of opportunities to play and learn and we want to make it easy to find inspiring, kid-friendly activities! That's why we've worked with PBS stations and content creators from across the country to bundle up some of our favorite activities into one, easy-to-carry-any-where book. We hope you and your kids will use this to inspire learning all summer long!

Here are a few quick tips to keep your kids excited about learning this summer:

- **ASK LOTS OF QUESTIONS**. Encourage your kids to participate in conversations by asking them questions like: Why do you think that happened? What will happen next?
- **ENCOURAGE KIDS TO SEARCH FOR ANSWERS**. When your children ask you "why?" see if you can work together to figure out what they need to know or do to find the answer.
- **TRY SOMETHING NEW**. Summer is a great time to try new things like reading a new kind of book, tasting a new food or exploring a new park.
- JUST HAVE FUN. Summertime only comes along once a year, so be sure to take the time to relax and have fun while you're learning.
- BUILD LASTING. POSITIVE MEMORIES THAT WILL LAST A LIFETIME!

HOW TO USE THIS BOOK

- Keep in mind that this book spans multiple grade levels. Your child won't be using every single page, but choosing a few lessons each week. The goal is to keep kids' brains engaged with a taste of reading, writing, math, art, science, and physical activity every week.
- The grade levels are merely guides to get you started. We recommend starting with the grade that your child just completed and adjusting as needed. Don't be shy about using a different grade level or just picking and choosing lessons that look interesting. This has been a tough year for our children and we want your child to feel proud and confident.
- This book aligns with the content on the Michigan Learning Channel, which can be used on live tv or on demand. There are about 2-3 hours a week of video lessons, plus lots of activities in this book that don't use a screen. We recommend getting outside everyday, reading everyday and having enjoyable moments together as a family!
- 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. If you have older children they may do better in the evenings.
- As you go through the weeks, you will find each week has a theme and a link to videos that go with the activities. You can find all the video lessons, plus interactive virtual events and more at www.michiganlearning.org/summer.

How do the students in your life use the Michigan Learning Channel? We would love your feedback! Feel free to contact us at mlc@dptv.org.

Michigan Learning Channel Team MichiganLearning.org

Dates and Themes

The summer program runs from June 20 to August 14, 2022.

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

Take Flight (June 20-26):

Michigan LEARNING

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

Under Water (June 27-July 3):

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

Heroes (July 4-10):

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

Creatures (July 11-17):

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

Engineering (July 18-24):

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

Great Outdoors (July 25-31):

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

When I Grow Up (August 1-7):

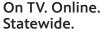
All summer we'll learn about different careers—this week, think about all the exciting possibilities in your future!

Shoot for the Stars (August 8-14):

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



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



f y O Follow @MichLearning on social media to find out more.



Where to Find the Michigan Learning Channel

Find your favorite shows anywhere you go!

Scan the QR Code:

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 Mights, 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

Coming soon to:

Charter Cable services in Northern Michigan and the Upper Peninsula. Visit MichiganLearning.org/Schedule for details





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



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The Michigan Learning Channel is funded through a grant awarded by the Michigan Department of Education and the U.S. Department of Education.



Serving Schools Statewide Through Your Local PBS Stations

> Watch On-Demand at MichiganLearning.org

The Michigan Learning Channel is Available On:

WCMU Alpena Channel 6.4

Cadillac Channel 27.4

Manistee Channel 21.4



Mt. Pleasant Channel 14.4 Shelby Shawl Shelby.shawl@cmich.edu



WDCQ Delta College Public Media Channel 19.5 Lauren Saj laurensaj@delta.edu (989) 686-9346



Grand Rapids Channel 35.6 Kalamazoo

WGVU

Channel 52.6 Rachel Cain cainra@gvsu.edu



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WTVS Detroit Public TV Channel 56.5 Olivia Misterovich omisterovich@dptv.org

WNIT Michiana PBS Channel 34.5 Sheri Robertson srobertson@wnit.org Cass and Berrien counties

WKAR WKAR Channe Summe (517) 88

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WKAR Public Media Channel 23.5 Summer Godette, M.Ed, summer@wkar.org (517) 884-4700 WNMU

WNMU WNMU-TV Channel 13.4 Ellen Doan WNMU Public Media edoan@nmu.edu (906) 227-6765

COMING SOON to Charter Cable in Northern and Mid-Michigan and the Upper Peninsula

Rescan Your TV to watch on Broadcast

Your remote control and TV menus may vary, but the steps are the same. Your TV will scan for all available channels.

TV sets connected to cable, satellite or other pay TV providers do not need to scan.

How to Scan

- **1.** Press menu on your remote control.
- 2. Select setup.
- 3. Choose antenna then channel scan or auto tune.



WEEKDAY SUMMER SCHEDULE

ΤΙΜΕ	GRADE	WHAT'S ON	
5ам		Let's Learn	
6АМ		PBS Kids shows	
6:30AM	Preschool -	Wimee's Words, Simple Gifts Series	
7ам	Kindergarten	Let's Learn	
8AM		Read, Write, ROAR! (Kindergarten)	
8:30AM		Math Mights (Kindergarten)	
9ам		Read, Write, ROAR! (1st Grade)	
9:30 AM		Math Mights (1st Grade)	
10 AM		Read, Write, ROAR! (2nd Grade)	
10:30AM	1st - 3rd Grade	Math Mights (2nd Grade)	
11 AM	Grade	Read, Write, ROAR! (3rd Grade)	
11:30ам		Math Mights (3rd Grade)	
12рм		Live From the City Opera House: It's Storytime	
12:30рм		PBS Kids shows	
1рм		Extra Credit	
1:30рм		Math & Movement	
2рм	4th - 6th Grade	Story Pirates	
2:30рм	Grade	DIY Science Time, SciGirls	
Зрм		Curious Crew	
3:30рм	1st - 3rd	Cyberchase, Into the Outdoors	
4рм	Grade	Read, Write, ROAR! (2nd & 3rd Grade)	
4:30 PM		Math Mights (2nd & 3rd Grade)	
5рм	Dressheel	Read, Write, ROAR! (Kindergarten & 1st Grade)	
5:30рм	Preschool - Kindergarten	Math Mights (Kindergarten & 1st Grade)	
брм		Let's Learn	
7рм		Extra Credit	
7:30рм	4th - 6th	Math & Movement	
8pm	Grade	Story Pirates	
8:30pm		DIY Science Time, SciGirls	
9рм 5ам	6th - 12th Grade	Nature, NOVA, American Experience, Ken Burns and other PBS programming	

Details at MichiganLearning.org/schedule

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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. f y 6



Learn at Home with PBS KIDS

Schedule Begins October 4, 2021

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	GRADE	LEARNING GOALS
6/5c am	The Cat in the Hat Knows a Lot About That!	PK-1	Science & Engineering
6:30/5:30c am	Ready Jet Go!	K-2	Science & Engineering
7/6c am	Peg + Cat	РК-К	Math
7:30/6:30c am	Super WHY!	РК-К	Literacy
8/7c am	Daniel Tiger's Neighborhood	РК-К	Social & Emotional Learning
8:30/7:30c am	Daniel Tiger's Neighborhood	РК-К	Social & Emotional Learning
9/8c am	Sesame Street	РК-К	Literacy, Math, Social & Emotional Learning
9:30/8:30c am	Elinor Wonders Why	РК-К	Science & Engineering
10/9c am	Clifford the Big Red Dog	РК-К	Social & Emotional Learning, Literacy
10:30/9:30c am	Dinosaur Train	PK-K	Science
11/10c am	Let's Go Luna!	K-2	Social Studies
11:30/10:30c am	Curious George	PK-K	Math, Science & Engineering
12 pm/11c am	Nature Cat	K-3	Science
12:30 pm/11:30c am	Xavier Riddle and the Secret Museum	K-2	Social & Emotional Learning
1/12c pm	Molly of Denali	K-2	Literacy
1:30/12:30c pm	Hero Elementary	K-2	Science & Engineering
2/1c pm	Cyberchase	1-5	Math & Science
2:30/1:30c pm	Pinkalicious & Peterrific	PK-1	The Arts
3/2c pm	Pinkalicious & Peterrific	PK-1	The Arts
3:30/2:30c pm	Elinor Wonders Why	РК-К	Science & Engineering
4/3c pm	Donkey Hodie	РК-К	Social & Emotional Learning
4:30/3:30c pm	Curious George	PK-K	Math, Science & Engineering
5/4c pm	Alma's Way	K-1	Social & Emotional Learning
5:30/4:30c pm	Xavier Riddle and the Secret Museum	K-2	Social & Emotional Learning
6/5c pm	Molly of Denali	K-2	Literacy
6:30/5:30c pm	Hero Elementary	K-2	Science & Engineering

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

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LIVE Virtual Events

As part of the Summer Program, students can participate in live virtual events via Facebook Live. Events are interactive and presenters will take student suggestions and questions in real time. Recorded versions of these events will also be available online.

Live virtual events will be hosted on the Michigan Learning Channel Facebook page.

Wimee's Words Live!

Recommended for ages 4-8

Join the loveable robot puppet Wimee and his friends as they discover more about the weekly theme. Wimee needs your help to write stories! Give Wimee your favorite words and ideas in the comments and watch as he incorporates them into stories and songs in real time. Your ideas may even be featured in future episodes of "Wimee's Words" on PBS!

Wimee's Words Live! with the Michigan Learning Channel Every Wednesday, June 21-August 9, 4pm Live on the Michigan Learning Channel Facebook page

Great Lakes Now Watch Party with the Belle Isle Aquarium

Recommended for ages 8 and up

The monthly PBS show Great Lakes Now explores the water, people, and environmental issues that tie together the whole Great Lakes basin. Once a month, they team up with the Belle Isle Aquarium to take a deep dive into the themes of the show. Students will have the chance to ask questions of the guest scientists and meet fantastic fish and other creatures.

Great Lakes Now Watch Party Friday, July 1, 1pm Friday, August 5, 1pm Live on the Michigan Learning Channel Facebook page



GREATLAKESNOW



On TV. Online. Statewide.

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



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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 Mights

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 apprach 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.



Learn at Home with PBS KIDS

Play and learn anytime and anywhere with free apps from PBS KIDS! Use the chart below to find the app that aligns to your child's grade, learning goal, and favorite PBS KIDS show - then download it on your on your mobile or tablet device to play online, offline, or anytime.

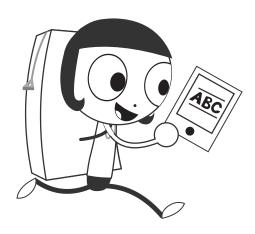
Apps for Social & Emotional Learning

Daniel Tiger for Parents	PK-K	Social & Emotional Learning
PBS KIDS Games app	K-2	Multiple Learning Goals
PBS KIDS Video app	K-2	Multiple Learning Goals

Apps for Literacy Learning

Dinosaur Train A to Z		Literacy, Science
Molly of Denali	K-2	Literacy
PBS KIDS Games app	K-2	Multiple Learning Goals
PBS KIDS Video app	K-2	Multiple Learning Goals





Apps for STEM Learning (Science, Technology, Engineering & Math)

PBS Parents Play & Learn	PK-K	Literacy, Math	Pho
Play & Learn Engineering	PK-K	Science and Engineering	Rea Spa
PBS KIDS Measure Up!	PK-K	Math	Rea Spa
Play & Learn Science	PK-K	Science	Nat Gree
Splash and Bubbles for Parents	PK-K	Science	PBS
Splash and Bubbles Ocean Adventure	PK-K	Science	Out wit
The Cat in the Hat Builds That!	PK-K	Science and Engineering	Cyb
The Cat in the Hat Invents	PK-K	Science and Engineering	PBS
Jet's Bot Builder: Robot Games	K-2	Science and Engineering	PBS

Photo Stuff with Ruff	K-2	Science
Ready Jet Go! Space Explorer	K-2	Science
Ready Jet Go! Space Scouts	K-2	Science and Engineering
Nature Cat's Great Outdoors	K-3	Science
PBS KIDS ScratchJr	1-2	Coding
Outdoor Family Fun with Plum	1-3	Science and Engineering
Cyberchase Shape Quest	1-5	Math
PBS KIDS Games app	K-2	Multiple Learning Goals
PBS KIDS Video app	K-2	Multiple Learning Goals



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Week 1: Take Flight

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

Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO!

Playlists this week: www.michiganlearning.org/takeflight

Be a pollinator with Cyberchase	بڑ 60 mins. of activity	Read 20 minutes	Make paper airplanes with Ready, Jet, GO!	Watch Read, Write, ROAR!
Read 20 minutes	Watch Math Mights	Look for birds	Spot a plane in the sky	ب 60 mins. of activity
بڑ 60 mins. of activity	Try an InPACT at Home activity Card	HAVE FUN! (Free Space)	Fly a kite	Read 20 minutes
Watch Read, Write, ROAR!	Spot a helicopter in the sky	Watch Math Mights	Watch InPACT at Home	Watch Live from the Opera House
Watch InPACT at Home	Read 20 minutes	Try Amelia Earhart's word find (pg. 12)	بڑ 60 mins. of activity	Travel with Let's Go Luna (pg. 11)

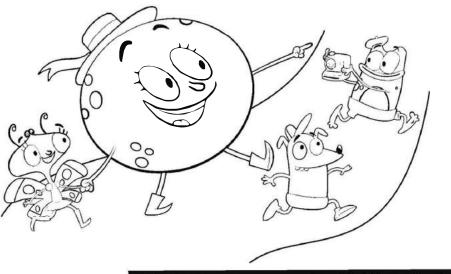






Where Would You Go?

If you could travel anywhere with Luna, Carmen, Andy and Leo, where would you choose to go and why?



Find more game and activities at pbskidsforparents.org



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Amelia Earhart's Travelling Word Find

F	т	Ρ	L	Α	N	Ε
U	т	N	S	N	R	Μ
N	X	K	K	Α	Α	т
D	F	L	Y	I	N	G
Μ	L	В	S	Z	I	Μ
н	Ρ	Т	L	0	т	W
Ρ	A	C	K	V	N	Ε

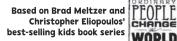
PLANE FLYING PILOT PACK SKY **FUN**

Find more games and activities at pbskids.org/xavier



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KIDDIE ACADEMY.

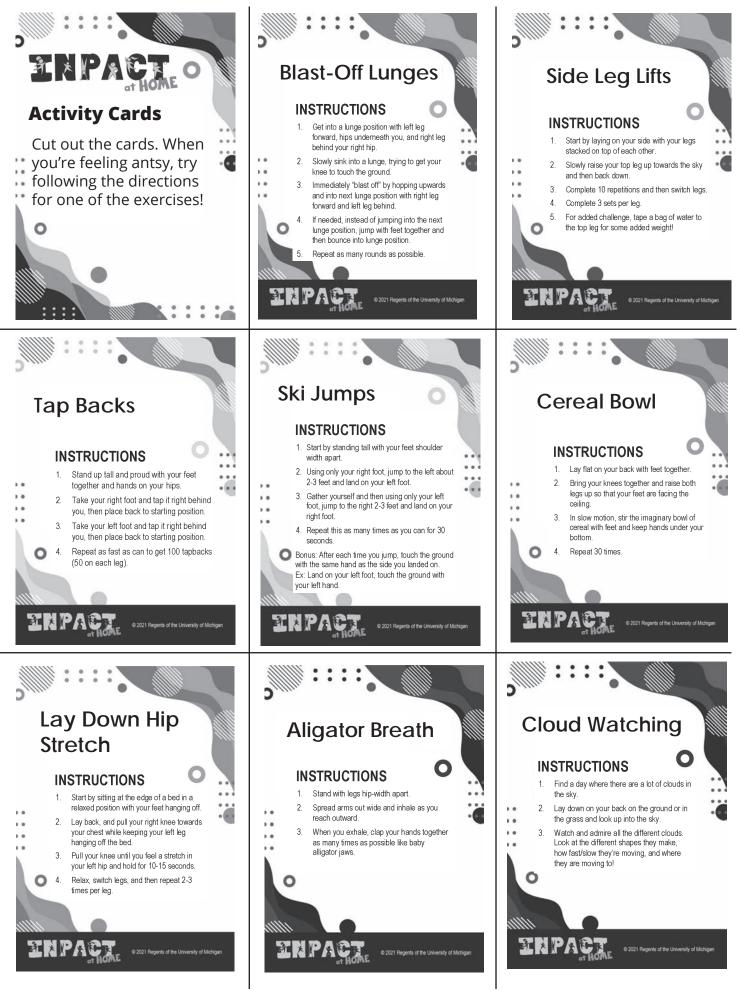


Help Amelia find all the words related

to her travels!

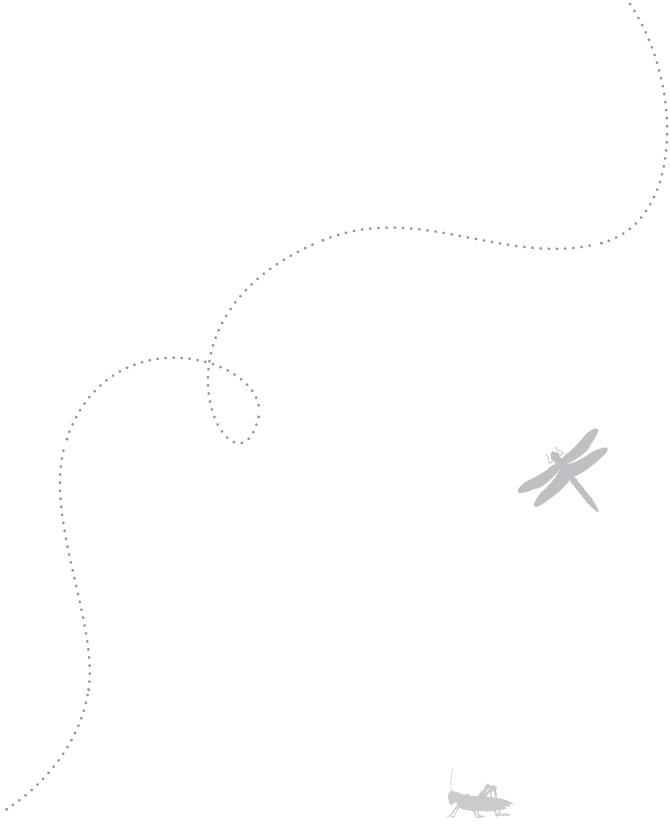


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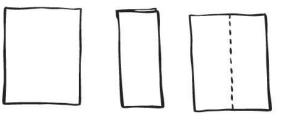


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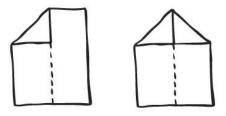
WIND DANCER

Funded by:

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



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



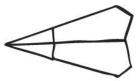
3. Refold lengthwise and rotate the paper to lay on the table like this:



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



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



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

For more games and activities, visit pbskidsforparents.org

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EXPLORE: Be a Bat!

Students model how bats and other pollinators help plants by spreading pollen from flower to flower.

Materials:

- Cups
- Pompoms or cotton balls

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- Colored sugar or confetti
 Add food coloring to sugar or make confetti with a hole punch and tissue paper.
- Kid-friendly tweezers
- 60 second timer

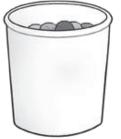


"FLOWERS"

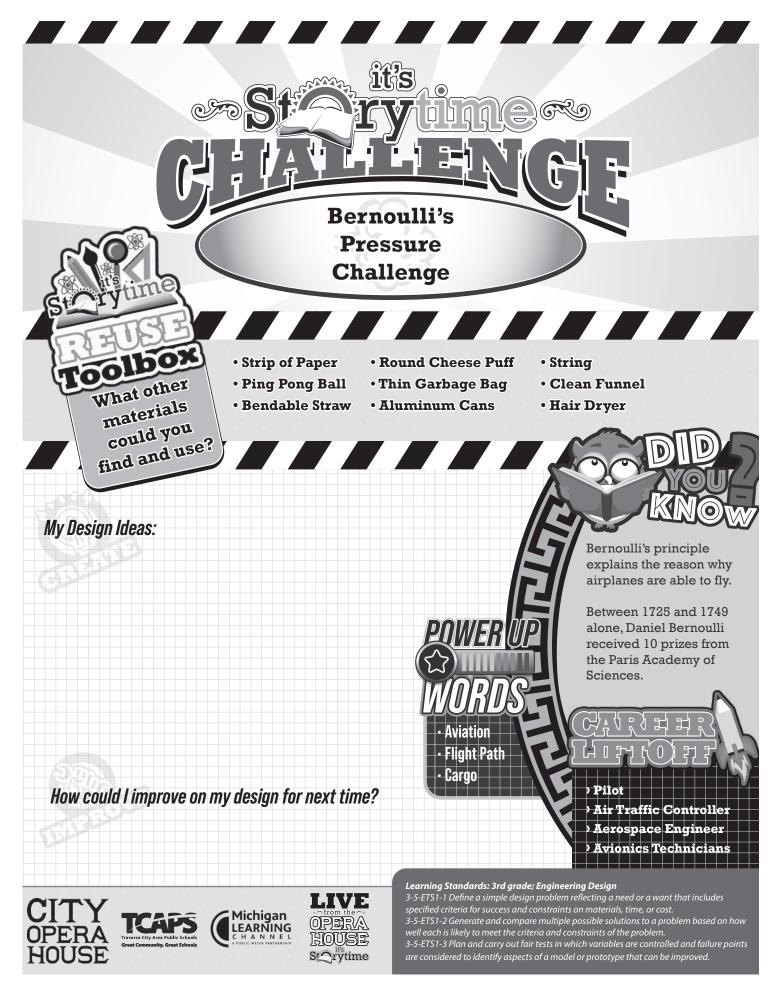
Pollinators

Instructions:

- 1. Coat the inside of several cups, each with a different color of sugar. These are your flowers.
- 2. Fill the cups halfway with small pompoms (nectar) that match the color of the sugar in that cup and place around the room.
- **3.** Give each student a pair of kid-friendly tweezers to be their pollinator "nose" and their own cup where they can collect pompoms.
- 4. Start a timer for 60 seconds. Students need to collect as many different colored pompoms as they can by visiting all the cups around the room. Have each "pollinator" pick up the pompoms one at a time with their tweezers, lift them out of the flowers, and drop them in their own cups.
- After 60 seconds, check the flower cups to see if any pollen (sugar) traveled from one flower to another. If the colors got mixed together, that means the flowers were pollinated.









ACTIVITY GUIDE

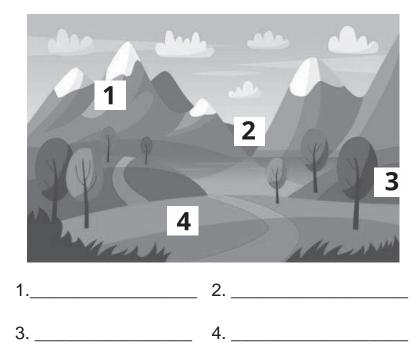
Episode 201: Earth's Landforms and -tch words

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



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.



🔍 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.





5 Way Callenge

Write the number 5 ways.

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

Math Mights 2nd Grade #302 | © Strategic Intervention Solutions, LLC | mathmights.org

Week 2: Under Water

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

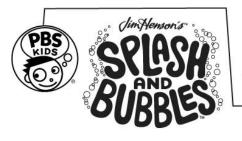
Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO!

Playlists this week: www.michiganlearning.org/underwater

Make a pond viewer (pg. 29)	بڑ 60 mins. of activity	Read 20 minutes	Draw a deep sea fish (pg. 28)	Watch Read, Write, ROAR!
Read 20 minutes	Watch Math Mights	Go fishing	Watch Live from the Opera House	بڑ 60 mins. of activity
A 60 mins. of activity	Try the Glorious Great Lakes Challenge	HAVE FUN! (Free Space)	Go swimming	Read 20 minutes
Watch Read, Write, ROAR!	Watch an ice cube change over time (pg. 31)	Watch Math Mights	Watch InPACT at Home	Watch Wimee's Words
Watch InPACT at Home	Read 20 minutes	Start a paper tracker (pg. 32)	بڑ 60 mins. of activity	Tidy up the kelp forest! (pg. 27)

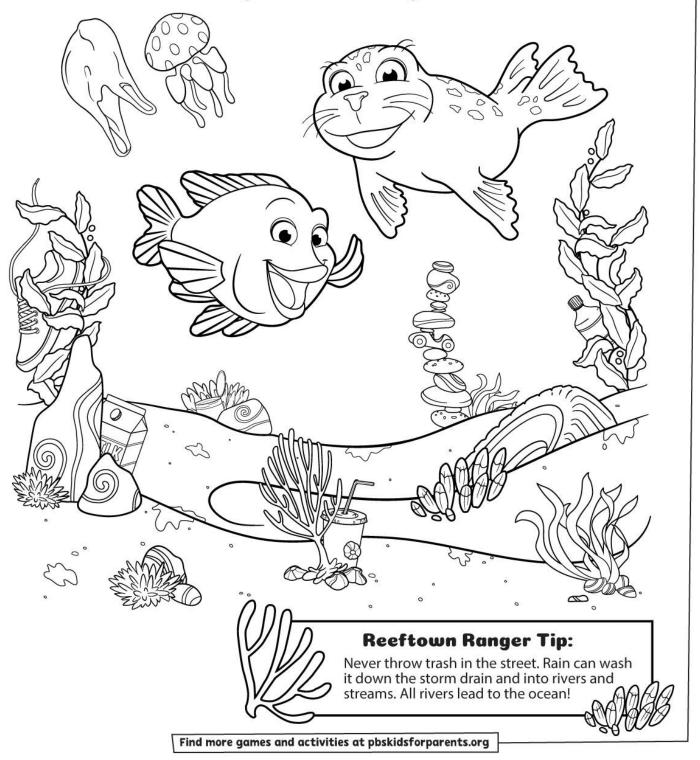






Tidy up the Kelp Forest!

Instructions: Tyke the Pacific Harbor Seal has hidden items that don't belong in the ocean. Can you help Tidy the Garibaldi Fish clean up? Circle the eight items that don't belong.



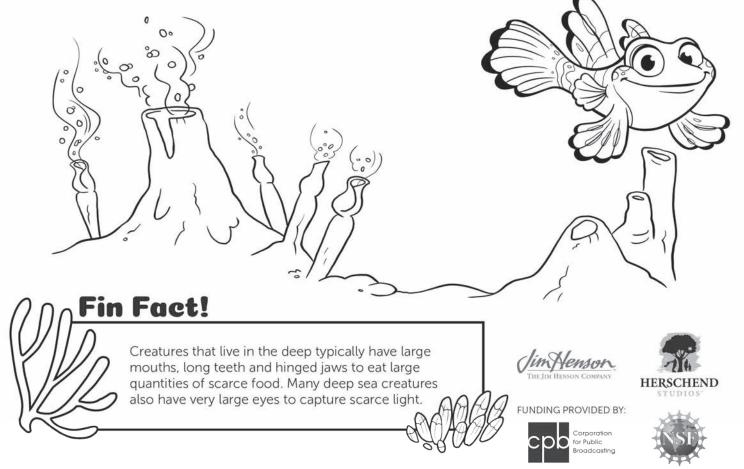
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Can you draw a deep sea fish with BIG EYES, a BIG MOUTH, and LONG TEETH?





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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

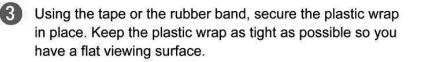
- One-half gallon milk carton
- Scissors
- Waterproof, strong tape (e.g. duct tape) or a sturdy rubber band
- Heavy, clear plastic wrap



LET'S MAKE A POND VIEWER!

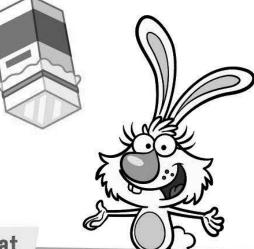
- Have an adult cut off the very top of the milk carton and the very bottom to create a rectangular tube.
- 2

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.



pbskids.org/naturecat

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POND VIEWING TIPS

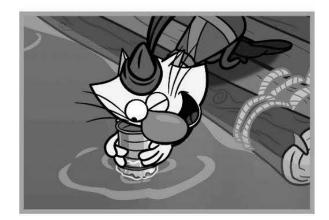


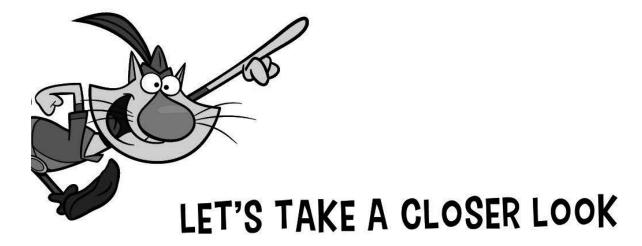
Splashing and stirring up mud will make it difficult to see into the pond. Be as still as possible when using your viewer.

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.



Other ways to view: on a dock, over the side of a canoe, or in a stream, lake or tide pool!





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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Ice Cubes and Water: Now and Later

Name

Instructions:

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

	I noticed this about
the wate	After 30-minutes, the water I poured looked like this

I observed this about th	ne ice	What do you notice about how liquid
When I first placed the ice on the ground, the ice looked like this	After 30-minutes, the ice looked like this	water changed? What do you notice about how solid water (ice) changed?

A question I still wonder about is... _

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

П

WIND DANCER

Find more games and activities at pbskidsforparents.org

Sponsored by: ABCmouse.com



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PAPER TRACKER

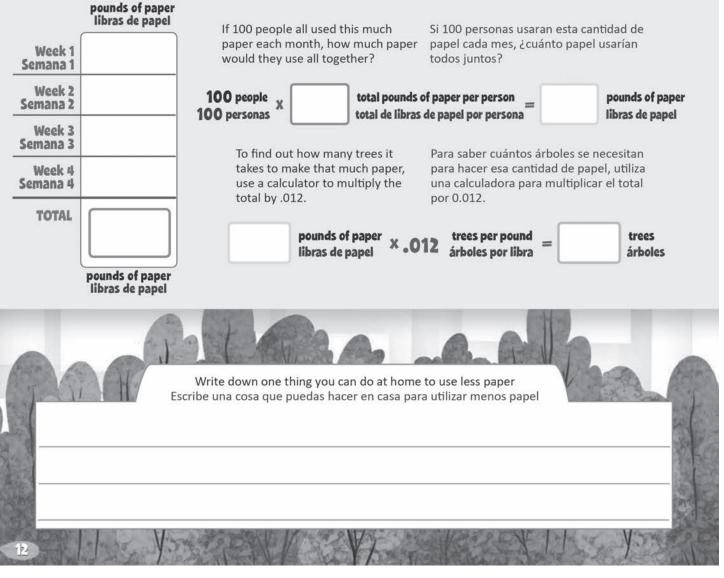
RASTREADOR DE PAPEL

The paper you use at home comes from trees. Find out how much paper you use in a month.

- Every time you go to throw away or recycle a piece of paper or cardboard, put it aside in a bag or box instead.
- 2. Then recycle any clean paper and compost or throw away any food-stained paper
- 3. Repeat this every week for a month.
- At the end of the month, add up the number of pounds of paper you threw away each week. Put the total in the box in the chart below.

El papel que usas en casa viene de los árboles. Averigua cuánto papel utilizas en un mes.

- Cada vez que vayas a tirar o reciclar un trozo de papel o cartón, guárdalo en una bolsa o caja.
- Luego recicla el papel limpio y desecha el papel manchado de comida.
- 3. Repite esto cada semana durante un mes.
- Al final del mes, suma la cantidad de libras de papel que desechaste cada semana. Pon el total en el cuadro de la tabla a continuación.







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 **thr**ob. 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.





Plot and Compare

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

1.		
	Plot: 681, 618 Compare (use <, >, or =) :	
2.		
3.	-+	
	Plot: 560, 460 Compare (use <, >, or =) :	

Math Mights 2nd Grade #303 | © Strategic Intervention Solutions, LLC | mathmights.org

Week 3: Heroes

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

Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO!

Playlists this week: www.michiganlearning.org/heroes

Design a gadget (pg. 43)	A 60 mins. of activity	Read 20 minutes	Make bubble mix (pg. 44)	Watch Read, Write, ROAR!
Read 20 minutes	Watch Math Mights	Spot a mail truck outside	Do a good deed	بڑ 60 mins. of activity
A 60 mins. of activity	Try the Cyberchase planting puzzle	HAVE FUN! (Free Space)	Watch Meet the Helpers	Read 20 minutes
Watch Read, Write, ROAR!	Do a good deed	Watch Math Mights	Watch InPACT at Home	Make superhero wrist cuffs (pg. 41)
Watch InPACT at Home	Read 20 minutes	Try a new food	بڑ 60 mins. of activity	Spot a fire truck outside





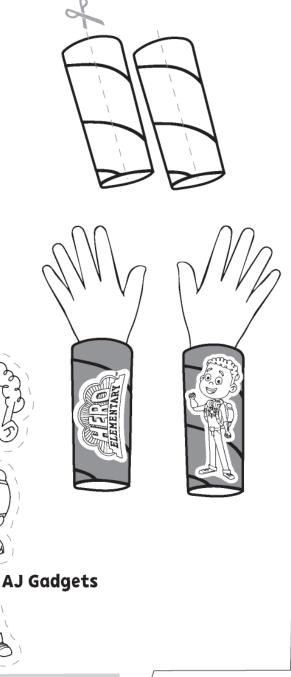


Recycled Superhero Wrist Cuffs

AJ Gadgets uses his Superpowers of Science to engineer cool new gadgets from recycled materials. Join Sparks' Crew by making your own HERO ELEMENTARY superhero wrist cuffs from empty toilet paper rolls.

Directions:

- **1.** Find two empty toilet paper rolls and make a cut down the length of each one so that you can slip one over each wrist.
- **2.** Decorate your superhero wrist cuffs! You can use paint, markers, glitter, yarn, fabric or your favorite art supplies.
- **3.** Color and cut out the images below and affix one to each wrist cuff. Can you find other recycled materials from around your house to add to your cuff?
- **4.** Wear your wrist cuffs and remember you can be a superhero by being kind and helping others!



For more games and activities, visit pbskidsforparents.org



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Gadget Gurus

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

What you need:

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

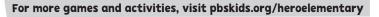


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Bubble Up!

Make a bubble mix at home for some outdoor fun!

What you need:

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

What to do:

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

Create a Wand!

What you need:

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

What to do:

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

A bubble wand has two parts:

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

Use pipe cleaners or wire to attach the two parts of the bubble wand. Dip the wand into the bubble mixture you created (see above) and blow bubbles!

Find more games and activities at pbskids.org/heroelementary

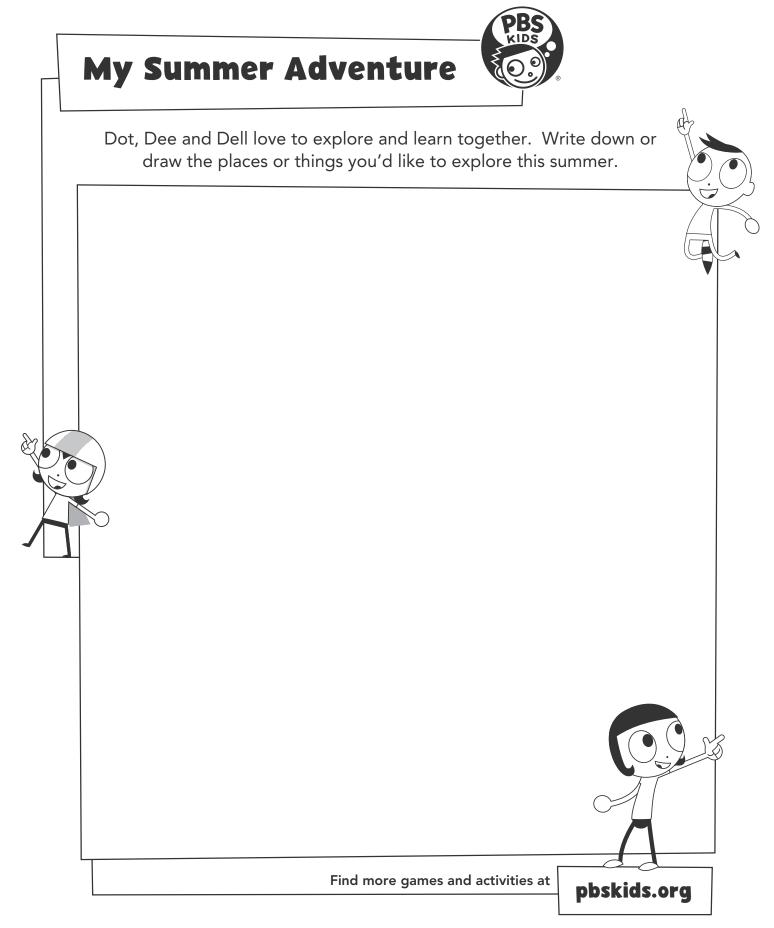


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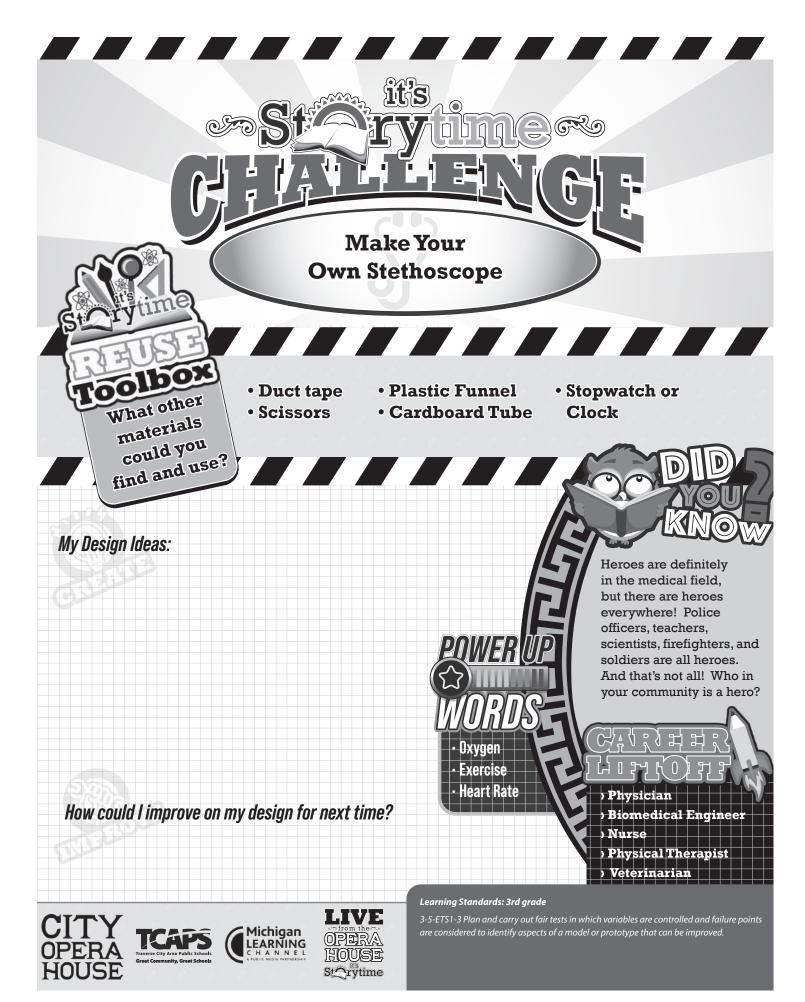


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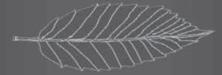


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46 | Summer Fun Activity Book | Elementary | Michigan Learning Channel

PLANTING PUZZLE



EL ROMPECABEZAS DE LA SIEMBRA

Flowers, like trees, help clean our air and make cities more beautiful. Help the CyberSquad plan out a community garden for a new Cyber Site, using these rules:

- Every green flower must be directly above, below, or to the side of a vellow flower
- Every green flower must also be directly above, below, or to the side of a pink flower
- Pink flowers can't be directly above, below, or to the side of another pink flower

Cut out the flowers on the last page. Use a crayon or marker to color in:

- 5 green flowers
- 8 yellow flowers
- 5 pink flowers
- 7 blue flowers

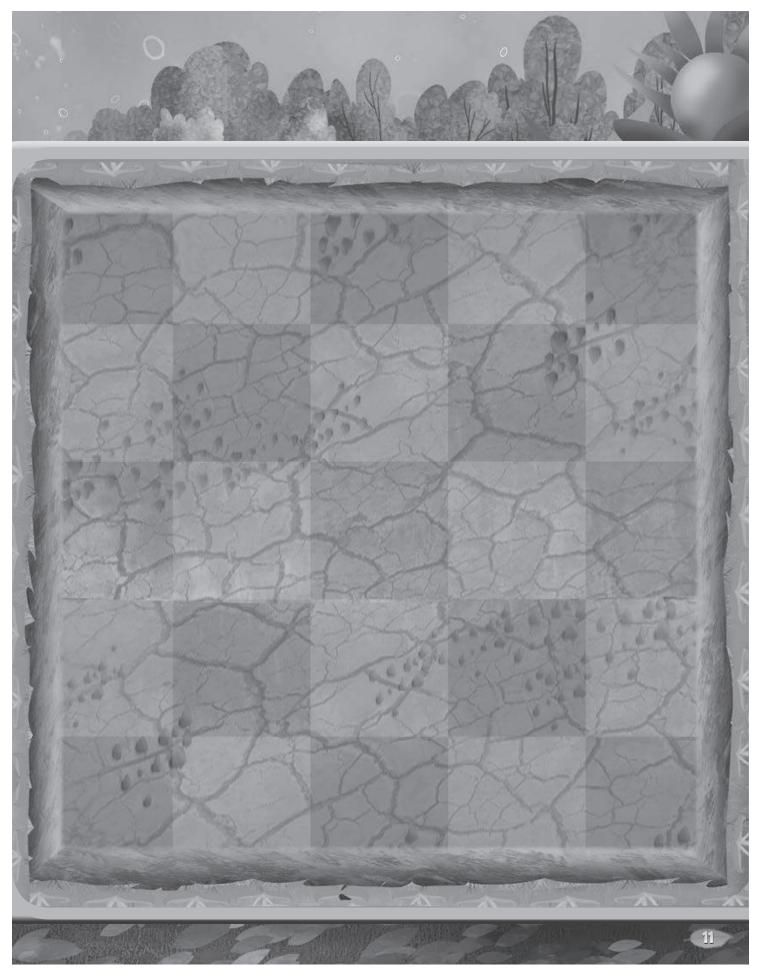
Use the grid on the next page to make your plan. Move the flowers around until you find a plan that follows all three rules above. Once you have them in place, glue them down to plant your garden. Las flores, como los árboles, ayudan a limpiar nuestro aire y a embellecer las ciudades. Ayuda al CyberSquad a diseñar un jardín comunitario para un nuevo Cyber Site siguiendo estas reglas:

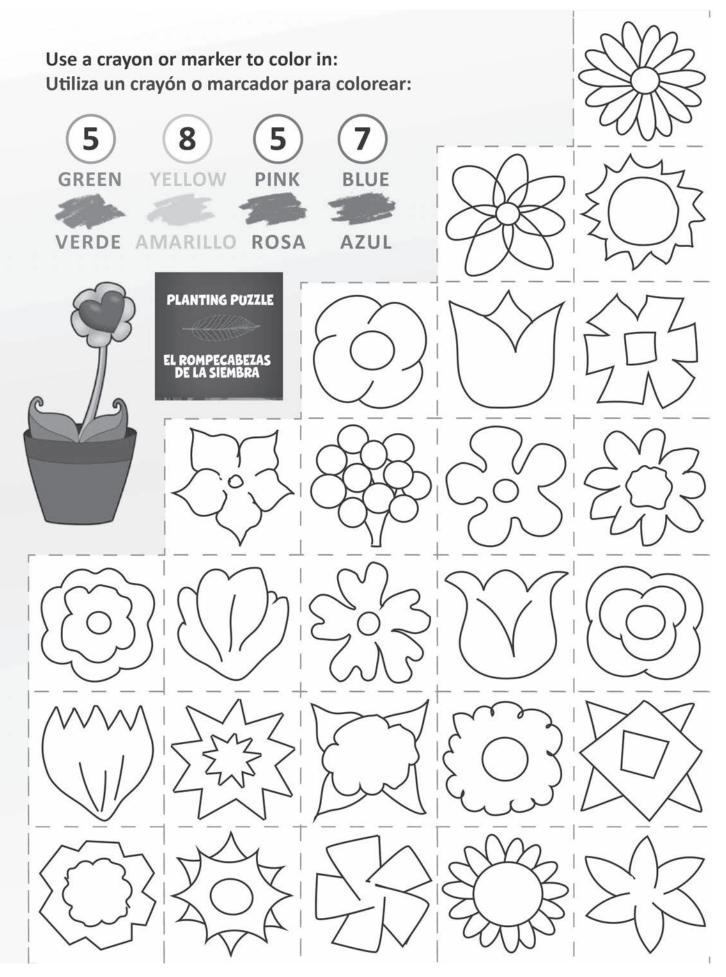
- Cada flor verde debe estar justo arriba, abajo o al lado de una flor amarilla
- Cada flor verde también debe estar justo arriba, abajo o al lado de una flor rosa
- Las flores rosas no pueden estar justo arriba, abajo o al lado de otra flor rosa

Recorta las flores que aparecen en la última página. Usa un crayón o marcador para colorear:

- 5 flores verdes
- 8 flores amarillas
- 5 flores rosas
- 7 flores azules

Usa la cuadrícula de la página siguiente para hacer tu plano. Cambia las flores de lugar hasta que encuentres un plano que siga las tres reglas anteriores. Una vez que las tengas en su lugar, pégalas para plantar tu jardín.

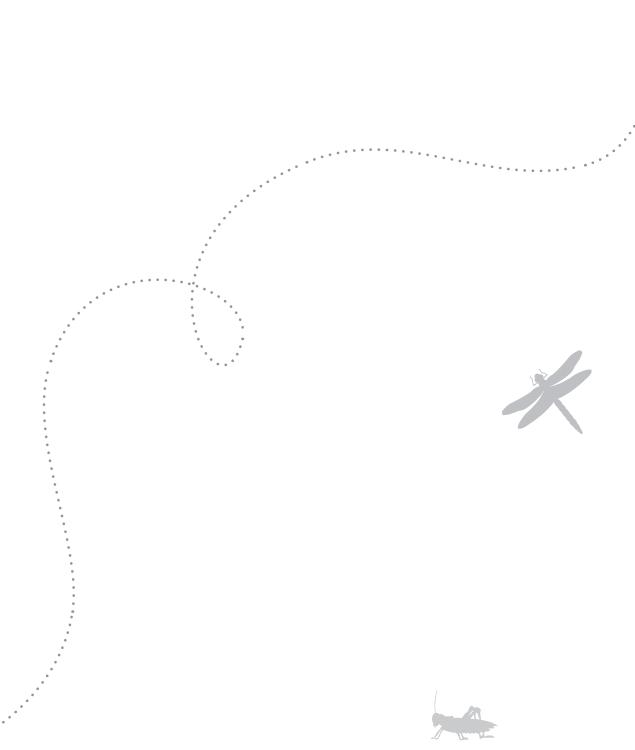




Summer Fun Activity Book | Elementary | Michigan Learning Channel |49



This page was left blank to cut out the activity on the other side.





OW YOUR

CULTIVA TU PROPIA HUERTA

Delicious, healthy vegetables don't just come from the store. You and your family can grow them from seeds at home! You don't need a big farm to grow vegetables. Even a small space can be home to a garden.

Use old newspapers to make a pot for planting seeds.

Materials:

- masking tape
- newspaper
- seeds for vegetables or herbs
- potting soil
- a can or jar
- 1. To make a newspaper pot:
 - a. Tear two strips of newspaper the width of your hand (about 4" wide).
 - b. Lay the two strips on top of each other.
 - c. Place the can on its side at one end of the strip. Leave a little extra paper hanging off the bottom of the can.
 - d. Roll the newspaper strips tightly around the can.
 - e. When you get to the end, tape it down. Then fold up the extra newspaper over the bottom of the can and tape it down too.
 - f. Pull the can out of the pot.
- 2. Fill the pot ½ full of soil.

2

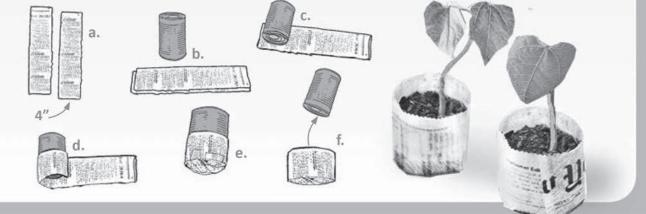
- Sprinkle some seeds on the soil. Cover the seeds with another layer of soil. Check the seed packet to see how much soil to add on top.
- 4. Place your pots on a plate or dish and put them by a window where they will get some light.
- After the plant grows a few leaves, plant the whole pot in the ground or in a bigger pot. Over time, the newspaper will biodegrade (break down) in the soil.

Las verduras deliciosas y saludables no solo vienen de la tienda. ¡Tú y tu familia pueden cultivarlas a partir de semillas en casa! No necesitas una gran granja para cultivar verduras. Incluso un espacio pequeño puede albergar una huerta.

Usa periódicos viejos para hacer una maceta para plantar semillas.

Materiales:

- cinta de enmascarar
- periódico
- semillas para verduras o hierbas
- tierra de macetas
- una lata o un frasco
- 1. Para hacer una maceta de periódico, debes:
 - a. Cortar dos tiras de papel de periódico del ancho de tu mano (alrededor de 4 pulgadas de ancho).
 - b. Pon las dos tiras una encima de la otra.
 - c. Pon la lata de lado en un extremo de la tira. Deja un poco de papel extra colgando del fondo de la lata.
 - Enrolla las tiras de periódico con firmeza alrededor de la lata.
 - e. Cuando llegues al final, ponle la cinta. Luego dobla el periódico extra sobre el fondo de la lata y pégalo con cinta también.
 - f. Saca la lata de la maceta.
- 2. Llena la maceta hasta la mitad con tierra.
- Esparce algunas semillas en la tierra. Cubre las semillas con otra capa de tierra. Revisa el paquete de semillas para ver cuánta tierra agregar en la parte superior.
- 4. Pon las macetas en un plato o una fuente y colócalas junto a una ventana donde reciban algo de luz.
- Después de que crezcan algunas hojas, planta toda la maceta en la tierra o en una maceta más grande. Con el tiempo, el periódico se biodegradará (se descompondrá) en el suelo.



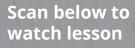
Activity adapted from the Children's Museum of Houston

Actividad adaptada del Museo de los Niños de Houston



ACTIVITY GUIDE

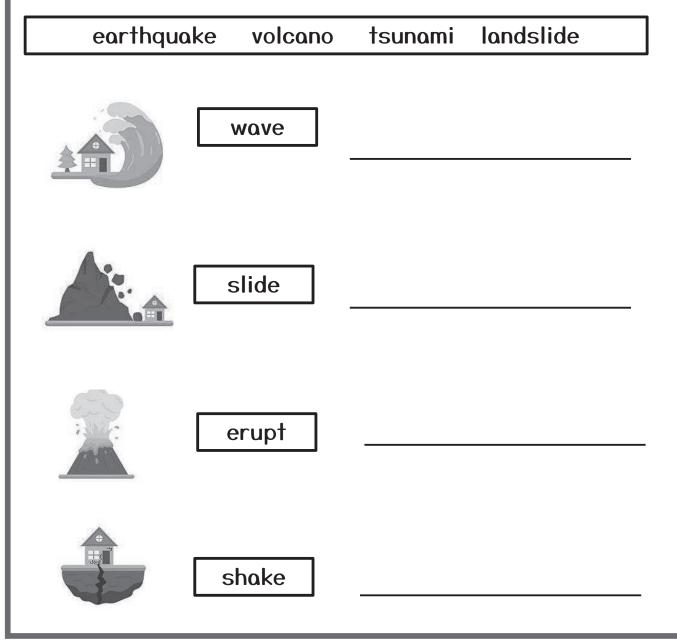
Episode 205: Earthquakes, Eruptions and Making Words **Book:** Earthquakes, Eruptions, and Other Events that Change Earth by Natalie Hyde





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.



Michigan Learning Channel

Read, Write, ROAR![™] 2nd Grade Episode 205 Summer Fun Activity Book | Elementary | Michigan Learning Channel |53





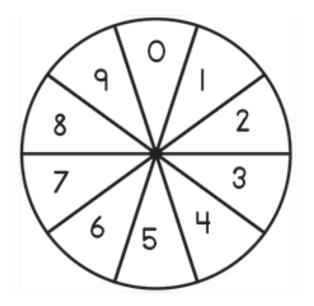
Which is Greater?

Materials:

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

Directions:

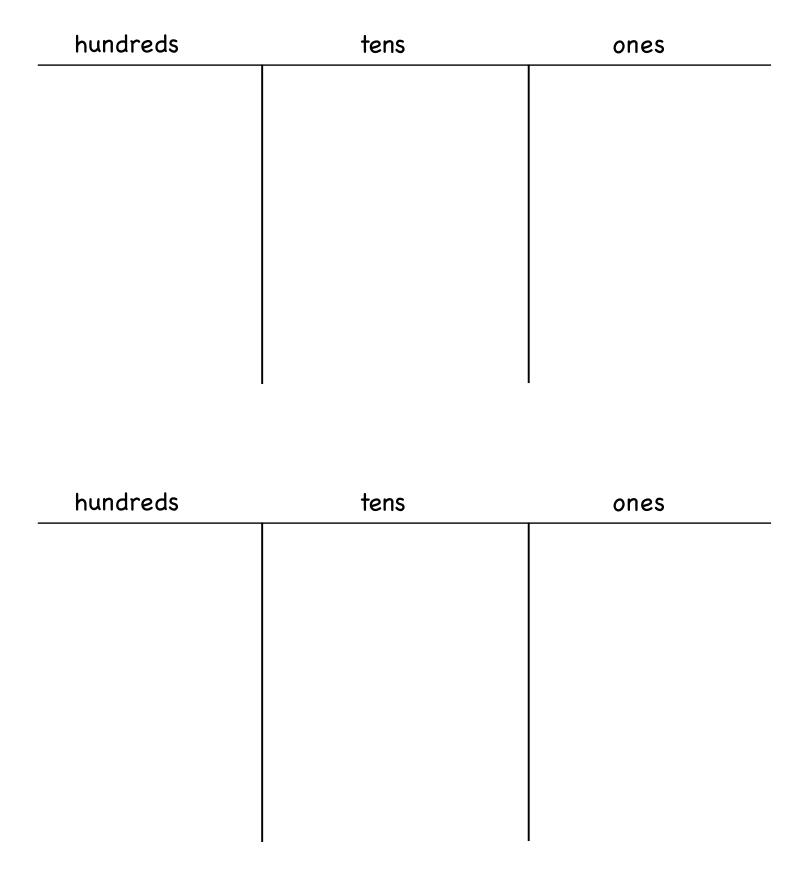
- 1. Work with a partner to try to make the greatest 3-digit number you can.
- 2. Player 1 spins. Player 1 decides if the number should go in the ones, tens, or hundreds place to make the largest 3-digit number. (ex: I rolled a 2 and I think it should go in the ones place because it is a low number.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



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

Math Mights 2nd Grade #305 | © Strategic Intervention Solutions, LLC | mathmights.org

Place Value Boards



Week 4: Creatures



July 11-17

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

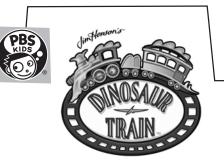
Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO!

Playlists this week: www.michiganlearning.org/creatures

lnvent a creepy cool creature (62)	Å 60 mins. of activity	Read 20 minutes	Catch a firefly	Watch Read, Write, ROAR!
Read 20 minutes	Watch Math Mights	Make tracks with clay (pg. 63)	Make bird obser- vations (pg. 64)	Å 60 mins. of activity
A 60 mins. of activity	Make a Rube Goldberg Machine	HAVE FUN! (Free Space)	Track the weather	Read 20 minutes
Watch Read, Write, ROAR!	Go fishing	Watch Math Mights	Watch InPACT at Home	Make a leftover recipe (pg. 66)
Watch InPACT at Home	Read 20 minutes	Write a creature adventure (pg. 61)	بڑ 60 mins. of activity	Move like a dinosaur (pg. 60)

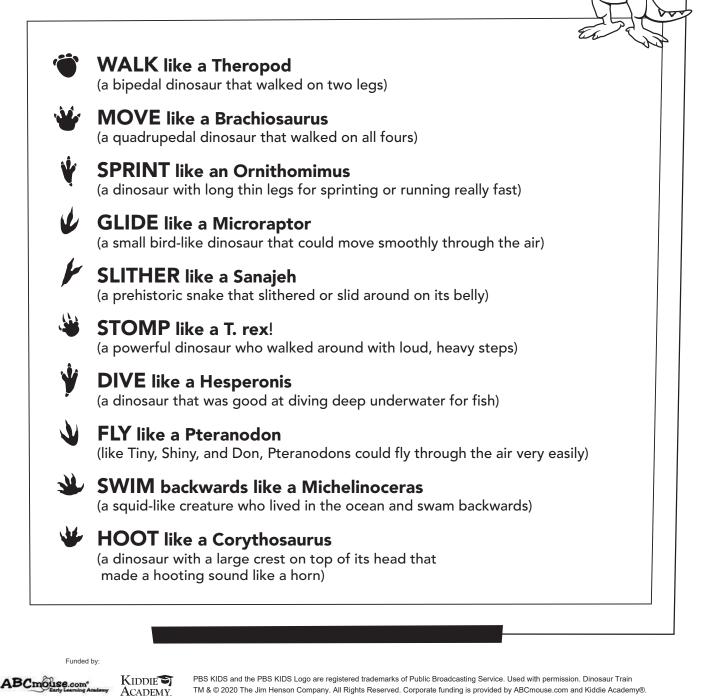






Move Like a Dinosaur

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.





My Creature Adventure

Instructions: It's time to write a creature adventure! To get started, choose a creature and a setting (where the adventure takes place). Then, decide on the plot (what happens to the creature in the setting). Use the space below to begin the story.

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Find more games and activities at pbskids.org/wildkratts



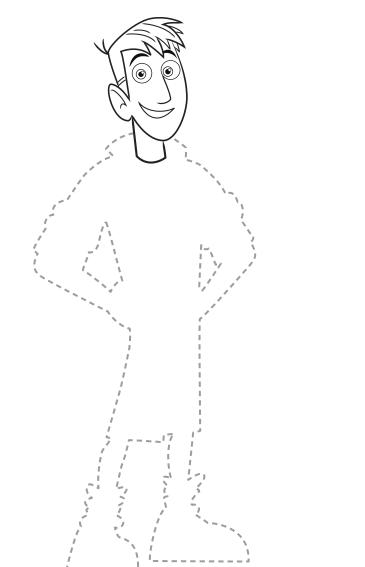
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Invent A Creepy Cool Creature

Think about what features make a creature creepy. Draw the creepiest creature you can invent, then make a cool Creature Power[®] suit for Martin to wear.



Find more games and activities at pbskids.org/wildkratts

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MAKIN' TRACKS WITH PLAY DOUGH!

DIFFICULTY: EASY

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

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



MATERIALS

- Nay dough
- 😵 Rolling pin
- Washable paint and paintbrush (optional)

CAPTURE YOUR TRACKS

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



Find more games and activities at pbskidsforparents.org

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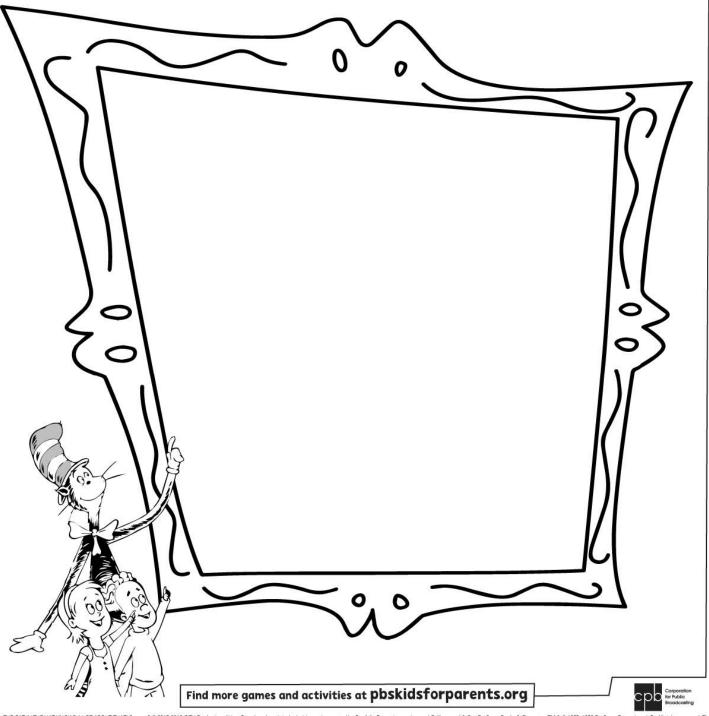






Name

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?



THE CAT IN THE HAT KNOWS A LOT ABOUT THATI Season 3 @ 2017-2018 CTH Productions III Inc. Based on the original television series created by Portfolio Entertainment Inc. and Collingwood & Co. Dr. Seuss Books & Characters TM & @ 1957, 1958 Dr. Seuss Enterprises, L.P. All rights reserved. The contents of this document were developed under a cooperative agreement (PR/Award No. U295A150003, CTDA No. 44,295A) from the U.S. Department of Education. However, these contents do not necessarily represent the policy of the Department of Education, and you should not assume endorsement by the Federal Government. PBS KIDS and the PBS KIDS up are registered trademarks of Public Broadcasting Service. Used with permission. Made available by the Corporation for Public Broadcasting, a private corporation funded by the American people.





LEFTOVER RECIPE CHALLENGE DESAFÍO DE LA RECETA DE SOBRAS

Getting creative with leftovers helps waste less food! Can you help Jackie use her leftover foods to make an exciting new recipe? Pick three of the foods in Jackie's refrigerator below to combine into a new recipe. Draw your leftover creation on the recipe card on the next page. Be sure to add a name for your new dish! ¡Al usar las sobras de forma creativa, se desperdicia menos comida! ¿Puedes ayudar a Jackie a usar las sobras de comida para crear una receta nueva? Escoge tres alimentos del refrigerador de Jackie para combinarlos en una receta nueva. Dibuja lo que creaste en la tarjeta de recetas de la página siguiente. ¡No olvides escribir un nombre para tu plato nuevo!





LEFTOVER RECIPE CHALLENGE DESAFÍO DE LA RECETA DE SOBRAS

MY NEW RECIPE MI RECETA NUEVA

Try the same thing with leftovers at home! Make a list of the leftover food in your refrigerator, so that everyone in the family knows what you have. Challenge the whole family to use those leftovers to make new recipes. Don't forget to use "ugly" fruits and veggies too!" ilntenta hacer lo mismo con las sobras que tienes en casa! Haz una lista de las sobras de comida que tienes en tu refrigerador para que todos en tu familia sepan lo que hay. Desafía a toda la familia a usar esas sobras para crear recetas nuevas. "¡No olvides usar frutas y verduras que estén 'feas', también!"





ACTIVITY GUIDE

Episode 208: Garbage vs. Recycling and Making Words **Book:** *Garbage or Recycling?* by Deborah Chancellor and Diane Ewen



Think About It	Words to Know
Read the following statements, Which are true and which are false?	Recycling is when we take materials that we were going to
It's impossible to recycle a soda pop can.	throw away and put them through a process so they can be made into something else.
Over half of the garbage we throw	These symbols are found on plastic items that can be recycled.
out can be recycled	PETE HDPE V LDPE
Plastic garbage often ends up in the sea	PP PS OTHER

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.



Michigan Learning Channel

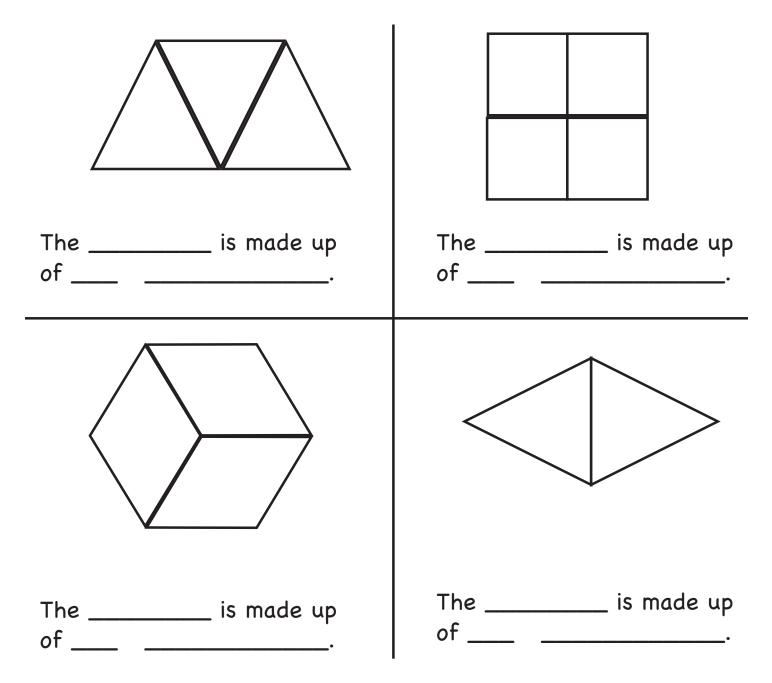
Read, Write, ROAR![™] 2nd Grade Episode 208





Describe The Shape

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



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Week 5: Engineering



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

Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO!

Playlists this week: www.michiganlearning.org/engineering

Watch Live from the Opera House	Å 60 mins. of activity	Read 20 minutes	Act out Structures (pg. 79)	Watch Read, Write, ROAR!
Read 20 minutes	Watch Math Mights	Try the hexagon challenge! (pg. 75)	Travel the Food Miles Maze (pg. 80)	بڑ 60 mins. of activity
Å 60 mins. of activity	Watch Meet the Helpers	HAVE FUN! (Free Space)	Build and balance an object (pg. 78)	Read 20 minutes
Watch Read, Write, ROAR!	F Ride a bike	Watch Math Mights	Watch InPACT at Home	Draw a family member's car
Watch InPACT at Home	Read 20 minutes	Try the Amazing Animals Challenge	بڑ 60 mins. of activity	Watch ArchiTreks

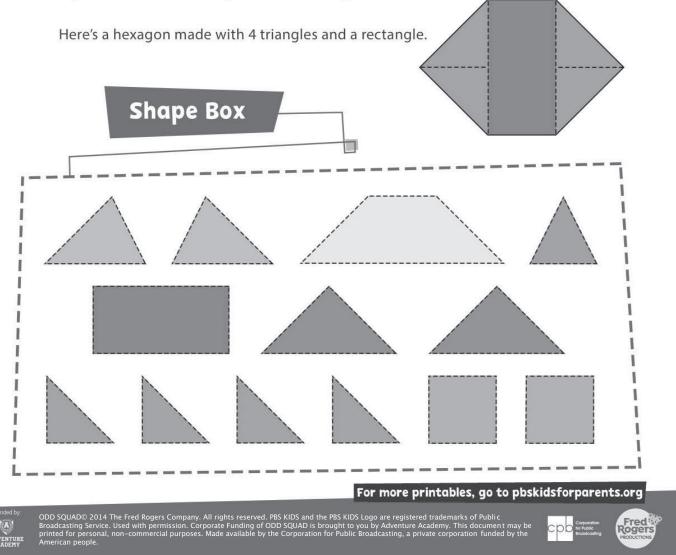




The Hexagon Challenge

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

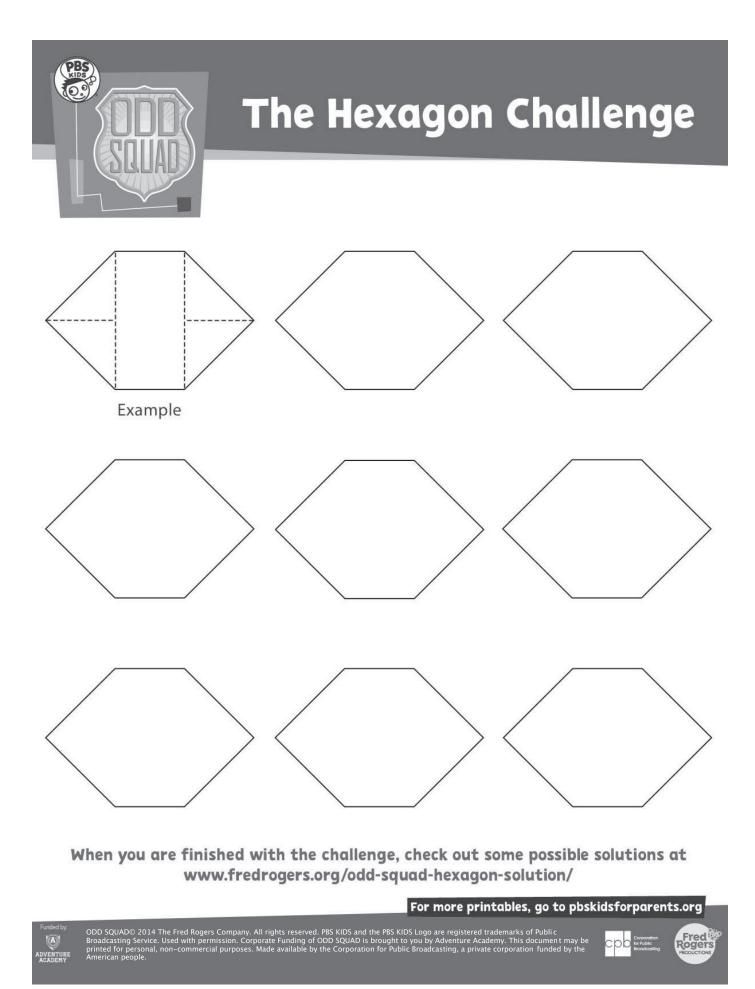
- 1. Cut out all the shapes from the Shape Box.
- 2. On the next page, mix and match your shapes to make a hexagon.
- **3.** Record how you did it by drawing the lines of each shape you used like in the example at the top.
- **4.** Reuse your shapes again and again to make more hexagon patterns. Try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





This page was left blank to cut out the activity on the other side.





Balance Build



Students will explore symmetry and the properties of balance in this open-ended STEM challenge.

Materials: You can use anything that sparks imagination! Here are some examples.

- Paper
- Scissors
- Craft Sticks
- Beads
- Straws
- Clear Tape
- Masking Tape

Did you know?

Have you ever balanced a pencil or a ruler on your finger? If you have, you helped it reach a **state of equilibrium**. In order to balance an object, you have to find its **center of gravity**. In the case of your pencil, the center of gravity is the same as its midpoint. This is because pencils (and rulers) are **symmetrical** and have equal mass along its length.

Procedure:

- 1. First, select your materials to create a balancing object. We suggested a few above, but use what you have around your home and challenge your family members to engineer their own design!
- 2. Creating a symmetrical object, or something that is equal on both sides, will help you in your design process.
- 3. Once you are satisfied with your design, test it out! See if you can find your new inventions center of gravity to balance it on your finger.
- 4. What part of your design worked really well in order to achieve balance? Did you experience any failures during your build? What improvements could you make?



Keep Exploring:

Try creating an asymmetrical object that can balance on your finger, or try to create a build to balance on your nose!

1801 W. Saint Andrews Rd. Midland, MI 48640 800.523.7649 midlandcenter.org





https://michiganarchitecturalfoundation.org



ArchiTREKS: Structures

Acting Out Structures





ARCH



COLUMN AND BEAM



DOME



TENSION



CANTILEVER



LOAD AND SUPPORT

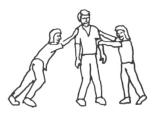








COMPRESSION



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! FOOD MILES MAZE

> 100 MILES

MILES

MILLAS

MILLAS

MILES

MILES

VILLA

35 MILES

EL LABERINTO DE LAS MILLAS DE COMIDA

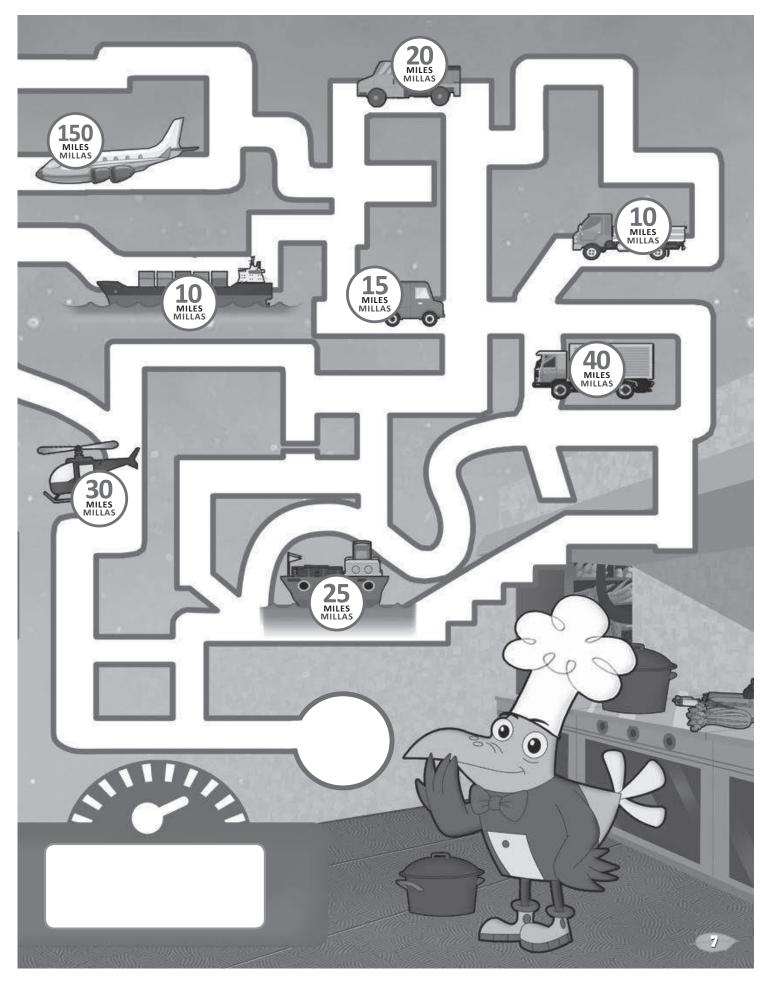
Sometimes food travels a long way to get from the farm to our table.

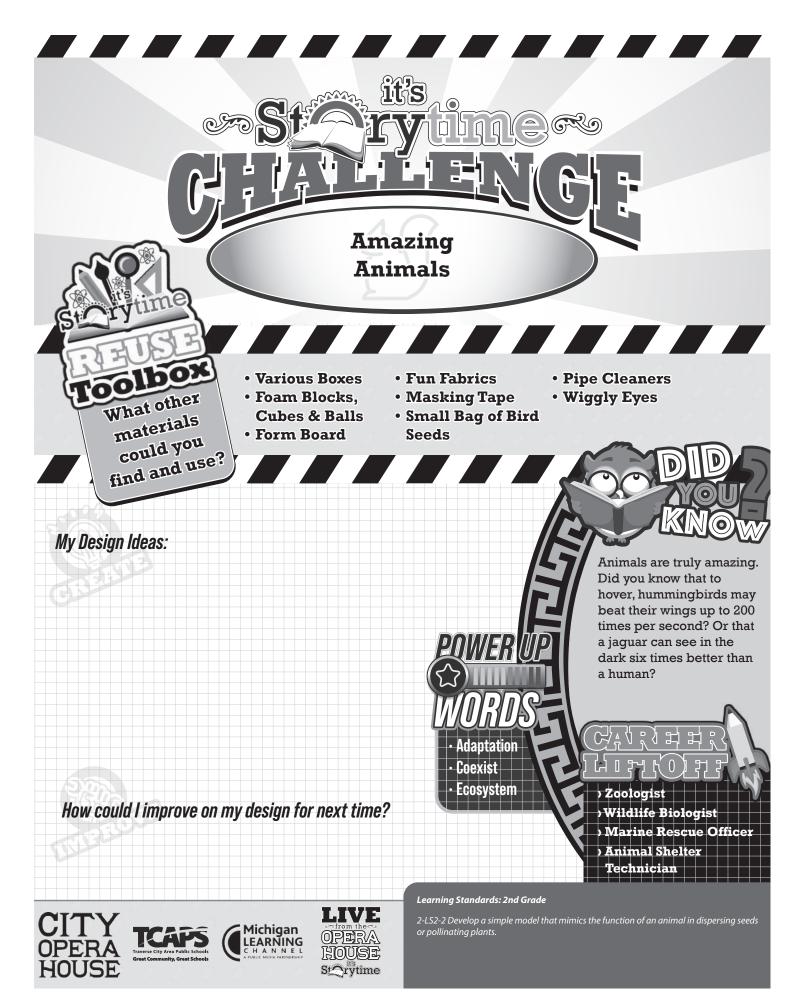
Draw a line to get the cherries from the farm to chef Digit in the maze below. Notice all the different types of transportation you use along the way. Add up the numbers from each type of transportation to see how many miles the cherries had to travel to get to Digit. Do it again and take a different path. Try to find the path with the lowest number of miles!

A veces la comida hace un gran recorrido para ir de la granja a nuestra mesa.

Dibuja una línea para llevar las cerezas desde la granja hasta el chef Digit a través del laberinto. Presta atención a los distintos tipos de transporte que usas en el camino. Suma los números de cada tipo de transporte para ver cuántas millas tuvieron que recorrer las cerezas para llegar a Digit. Luego, hazlo de nuevo, pero toma un camino diferente. ilntenta encontrar el camino que tenga menos millas!

> Total Miles Travelled: Total de millas recorridas:



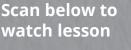


82 | Summer Fun Activity Book | Elementary | Michigan Learning Channel



ACTIVITY GUIDE

Episode 210: Repurposing Plastic and -ough- Words **Book:** *Plastic Eco Activities* by Louise Nelson





Phonics Skills

Spelling Pattern o-u-g-h

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

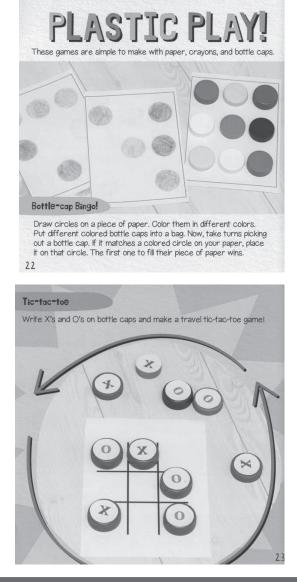
Read the word on the left side of the chart. Listen to the ending sound. Read the word on the right side of the chart using the same ending sound from the first column for the o-u-g-h spelling pattern in the word.

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

Michigan Learning Channel

Reuse It

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



Read, Write, ROAR!™ 2nd Grade Episode 210



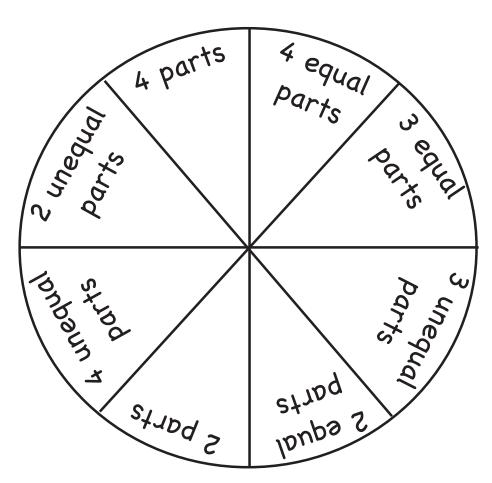


Materials:

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

Directions:

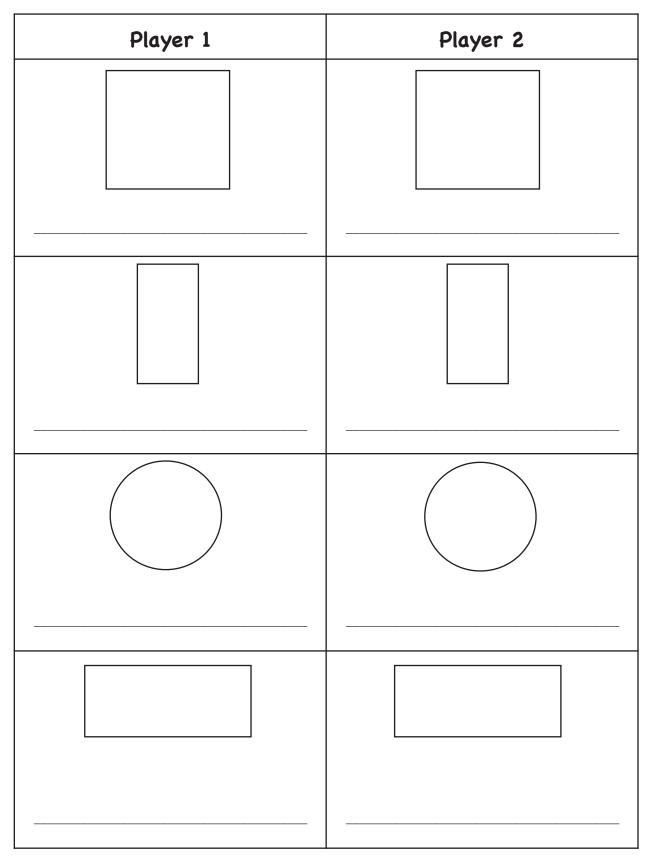
- 1. Player 1 spins and splits their shape.
- 2. Compare the shapes.
- 3. If you made equal parts, name the parts using halves, thirds, or fourths on the recording sheet.
- 4. Player 2 repeats steps 1–3. Continue taking turns until the recording sheet is filled in.



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Recording Sheet



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Week 6: Great Outdoors



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

Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO!

Playlists this week: www.michiganlearning.org/greatoutdoors

Make a bird feeder (pg. 93)	A 60 mins. of activity	Read 20 minutes	Watch the sunset	Watch Read, Write, ROAR!
Read 20 minutes	Watch Math Mights	Search for Textured Treasures (pg. 91)	Visit a new place	بڑ 60 mins. of activity
Å 60 mins. of activity	Draw a pollinator (pg. 95)	HAVE FUN! (Free Space)	Try a new food	Read 20 minutes
Watch Read, Write, ROAR!	Go swimming	Watch Math Mights	Watch InPACT at Home	Make leaf rubbings (pg. 94)
Watch InPACT at Home	Read 20 minutes	Watch the sunrise	بڑ 60 mins. of activity	Watch Live from the Opera House









Search for Textured Treasures!

From a prickly pinecone to a soft sweater, everything we touch has texture. How many textures can you find inside or outside of your house? Race the clock or race a friend with this printable scavenger hunt!

Instructions:

- 1) Look at the scavenger hunt table on the following page.
- 2) Begin hunting for textures on your list.
- 3) When you find something, draw a picture or write the object's name next to its matching texture.

TEXTURE describes the feel or appearance of an object or the material an object is made of.



More Ways to Play:

- Instead of drawing or writing, snap photos with a digital camera or camera phone.
- In the spaces on your sheet, make crayon rubbings of the textures you find.
- Target your scavenger hunt. Look for objects in nature, in your kitchen, or a specific room.
- Explore other senses. Find things with different colors, smells, or even tastes. (Tastes found in the kitchen, of course.)

Find more games and activities at pbskidsforparents.org

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The Ruff Ruff Ruff Man Ruff Man Show	I spy something rough! Nat	me
I'm looking for something	l found a	
smooth		
rough		
bumpy		
prickly		
sticky		
fluffy		
glossy		

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Make a Bird Feeder

What to Do:

1. Select a bird feeder base: Pinecones are a popular foundation for a bird feeder, but you may also use an empty paper towel roll or a stale piece of bread.

2. String it up: Run a wire, dental floss or cotton string through your bird feeder. Secure the two ends together to make a loop.

3. Make it sticky: Coat the base with peanut butter. If you know someone who has peanut allergies, use honey instead.

4. Add some goodies: Roll the feeder in raisins, cranberries, unsalted and unbuttered popcorn, sunflower seeds, shelled plain peanuts or mixed birdseed.

5. Hang it up: Place your bird feeder on a hook or on a tree branch outside your window. Discover which birds are popular in your neighborhood, research what they like to eat, and make a bird feeder for them.

6. Keep a wildlife journal: Record what kind of birds and other animals come to visit your feeder!

What You Need:

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

Find more games and activities at pbskidsforparents.org

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Make Leaf and Bark Rubbings

Instructions

- **1.** You'll need one or more crayons with the labels removed, some cardboard or a clip board and some masking tape to help hold leaves or bark in place.
- **2.** When you're walking outside, collect a few fallen leaves, some bark or other natural materials. It's best if you find leaves or bark where you can feel bumps or ridges.

3. Once you've found your leaves, bark or other items, use tape to secure the edges of the leaves, bark or other materials to the clipboard or cardboard so that they will stay in place while you make your rubbing.

- **4.** Place this paper over the leaves and bark and lightly rub the side of the crayon over the surface of the paper, just hard enough so that the texture shows.
- 5. Write a list of words to describe how the leaf or bark feels or looks like.

What You'll Need:

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

Find more games and activities at pbskidsforparents.org

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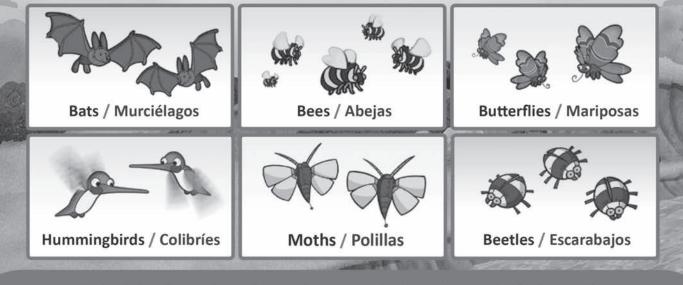


FRIENDLY NEIGHBORHOOD POLLINATORS

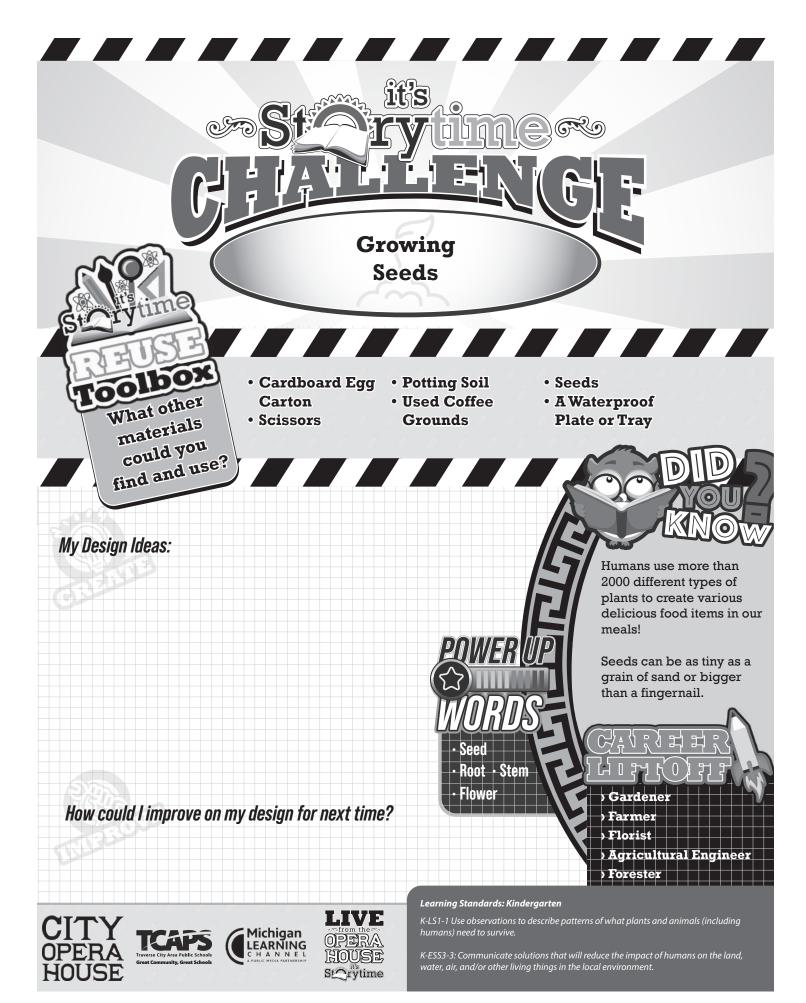
POLINIZADORES AMISTOSOS DEL VECINDARIO

Pollinators help plants with flowers to grow. Go on a pollinator scavenger hunt! Take a walk around your neighborhood or in a local park. Look for the pollinators below. Draw a circle around each one that you see.

Los polinizadores ayudan a las plantas con flores a crecer. ¡Ve a una búsqueda de polinizadores! Da un paseo por tu vecindario o en un parque local. Busca los polinizadores de abajo. Dibuja un círculo alrededor de cada uno que veas.



In the box below, draw a picture of one of the pollinators you saw. If there were plants nearby, put them in your drawing too! What kinds of plants do pollinators seem to like? En el recuadro de abajo, dibuja uno de los polinizadores que viste. Si había plantas cerca, idibújalas también! ¿Qué tipo de plantas parecen gustar a los polinizadores?





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

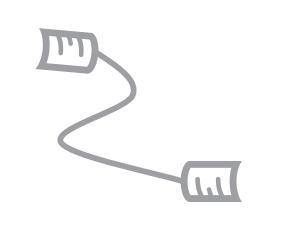
Properties of Metal:

- 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.



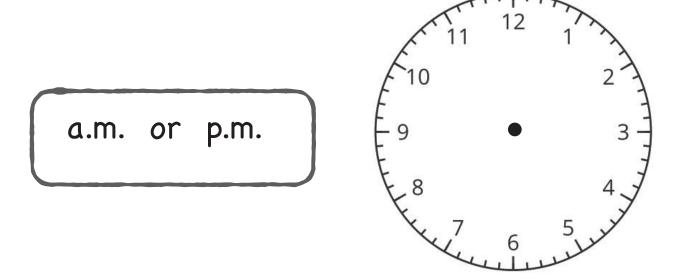
Michigan Learning Channel

Read, Write, ROAR![™] 2nd Grade Episode 211

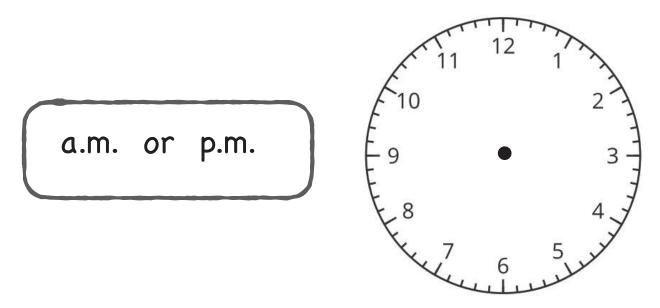




1. Sierra wakes up in the morning at 7:15. Show this time on the clock face below. Circle a.m. or p.m.

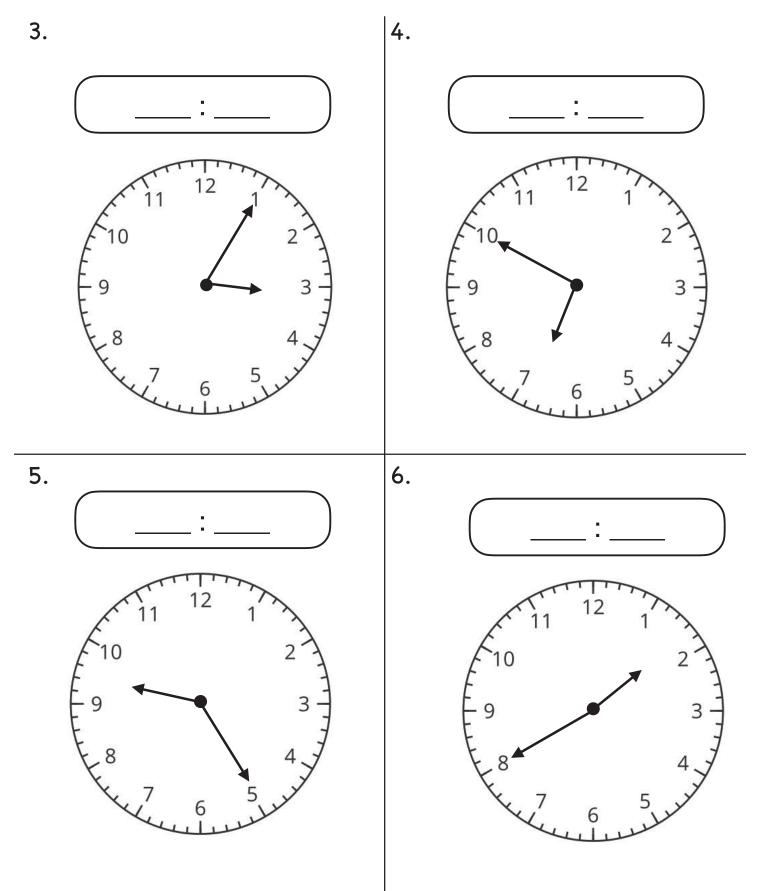


2. Sierra goes to bed at 8:45. Show this time on the clock face below. Circle a.m. or p.m.



Math Mights 2nd Grade #314 | © Strategic Intervention Solutions, LLC | <u>mathmights.org</u>

Write the time for each clock face.



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Week 7: When I Grow Up

August 1-7

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

Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO!

Playlists this week: www.michiganlearning.org/growup

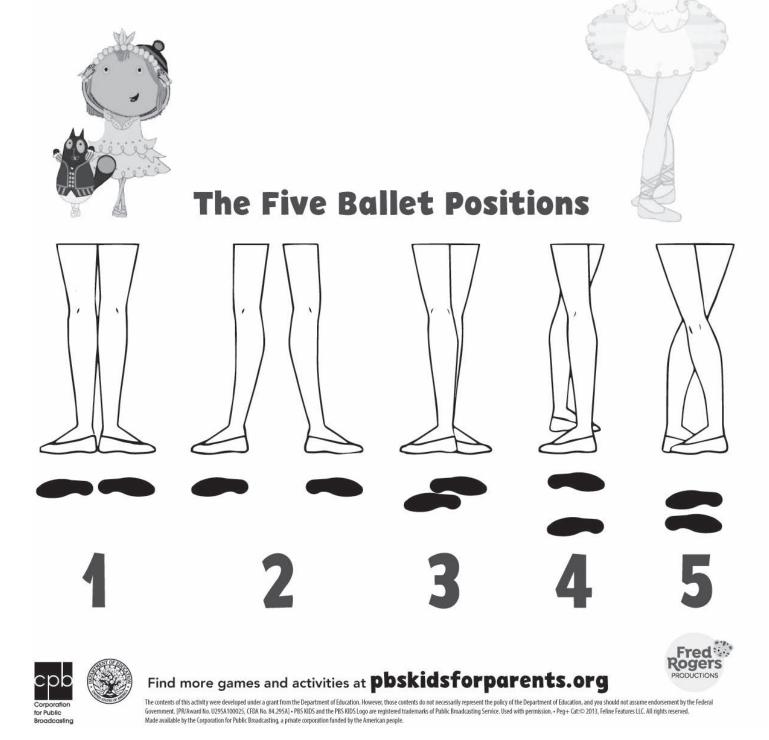
Learn about a family member's job	Å 60 mins. of activity	Read 20 minutes	Try Bianca's body math (pg. 107)	Watch Read, Write, ROAR!
Read 20 minutes	Watch Math Mights	Watch Live from the Opera House	Practice ballet positions (pg. 106)	بڑ 60 mins. of activity
A 60 mins. of activity	Draw a self portrait	HAVE FUN! (Free Space)	Learn about a family member's job	Read 20 minutes
Watch Read, Write, ROAR!	Watch Meet the Helpers	Watch Math Mights	Watch InPACT at Home	Fill in the compost fractions (pg. 110)
Watch InPACT at Home	Read 20 minutes	Practice Fact Families (pg. 109)	بڑ 60 mins. of activity	Invent an instrument (pg. 108)







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!



Bianca's Body Math

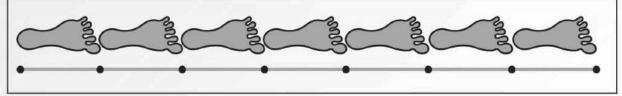
Did you know that for a lot of people, their foot is the same length as their forearm? Find out if it's true for you!

YOU NEED

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

DIRECTIONS

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



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

Measure	About how many foot lengths?
From wrist to elbow (forearm)	
Around widest part of your fist	
Around your forehead	
From head to toe	

Who Knew?

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



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Materials

For your Music Maker:

cups, paper plates,

beans, beads, jingle bells, paper towel

rolls, pipe cleaners,

bands, balloons,

□ Masking tape

handout

□ Stapler

Pencil

craft sticks, plastic salad bar containers, aluminum foil, and other found objects

"My Invention Design"

paper straws, waxed paper, combs, rubber

plastic and paper



Music to Our Ears!

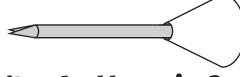
Help! Hacker stole all the musical instruments from the borgs in R-Fair City on the day of their big parade! Can you invent a musical instrument to save the parade?

Make Your Instrument

 Play with the materials. Find sounds that you like by shaking, striking, or spinning objects.



- Use the "My Invention Design" handout to plan your Music Maker.
 Make a sketch to show what it looks like.
- B Make your instrument and try it out. Does it work the way you planned?
- What changes can you make to your instrument to improve how it sounds?



How Am I Inventing?

Inventors take time to plan an invention before they start building. They start with an idea of what they want their invention to do and make a plan. When they stick to that plan, they can build an invention that works the way they want. This is called *designing for function*. When you design your instrument to make a particular sound, you're designing for function, too.

in, too.

Get inventive with CYBERCHASE on PBS KIDS GO! Check local listings or visit www.pbskidsgo.org/cyberchase.

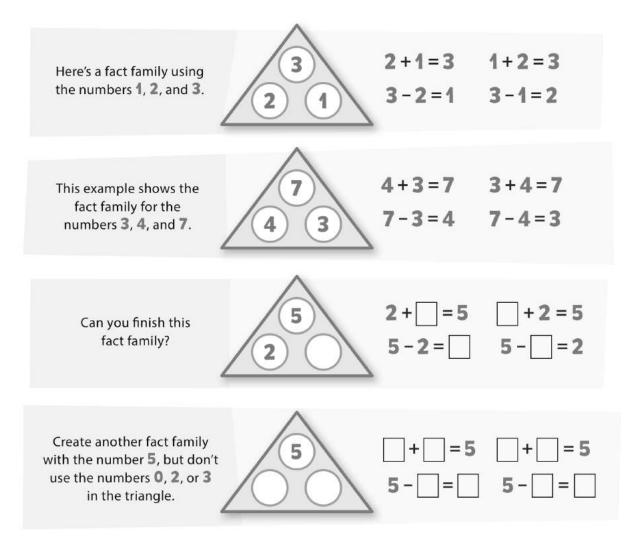
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Agents, Villains, and Fact Families

The Odd Squad Mobile Unit must stop a group of villains from causing oddness! Help the agents solve the **fact family** problems shown in the triangles below and on the next page. A fact family is a group of numbers related to one another. Use addition and subtraction to find the answers and help end the oddness that is taking over the city!





Find Odd Squad games, videos, and OddTube at pbskids.org/oddsquad

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FRACCIONE

Composting is the process of changing food waste (and grass and leaves) into new soil. To compost, you need to use 1/3 "green" material (fruit and vegetable scraps) and 2/3 "brown" material (dried leaves and recycled paper).

- 1. Count the squares below. Each one is 1/3 of the total rectangle.
- 2. Color 1/3 of the rectangle below (or 1 square) with a green crayon or marker.
- 3. Color 2/3 of the rectangle below (or 2 squares) with a brown crayon or marker.

111

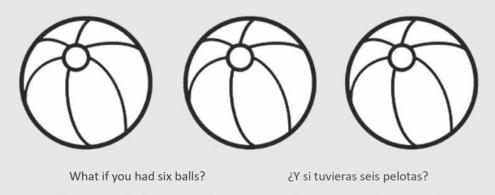
El compostaje es el proceso por el cual los residuos de alimentos (el césped y las hojas, también) se transforman en un tipo especial de tierra. Para hacer compost, se necesita 1/3 de material "verde" (restos de frutas y verduras) y 2/3 de material "marrón" (hojas secas y papel reciclado).

- 1. Cuenta los cuadrados de abajo. Cada uno es 1/3 de todo el rectángulo.
- 2. Colorea 1/3 del rectángulo de abajo (o 1 cuadrado) con un crayón o marcador verde.
- Colorea 2/3 del rectángulo de abajo (o 2 3. cuadrados) con un crayón o marcador marrón.

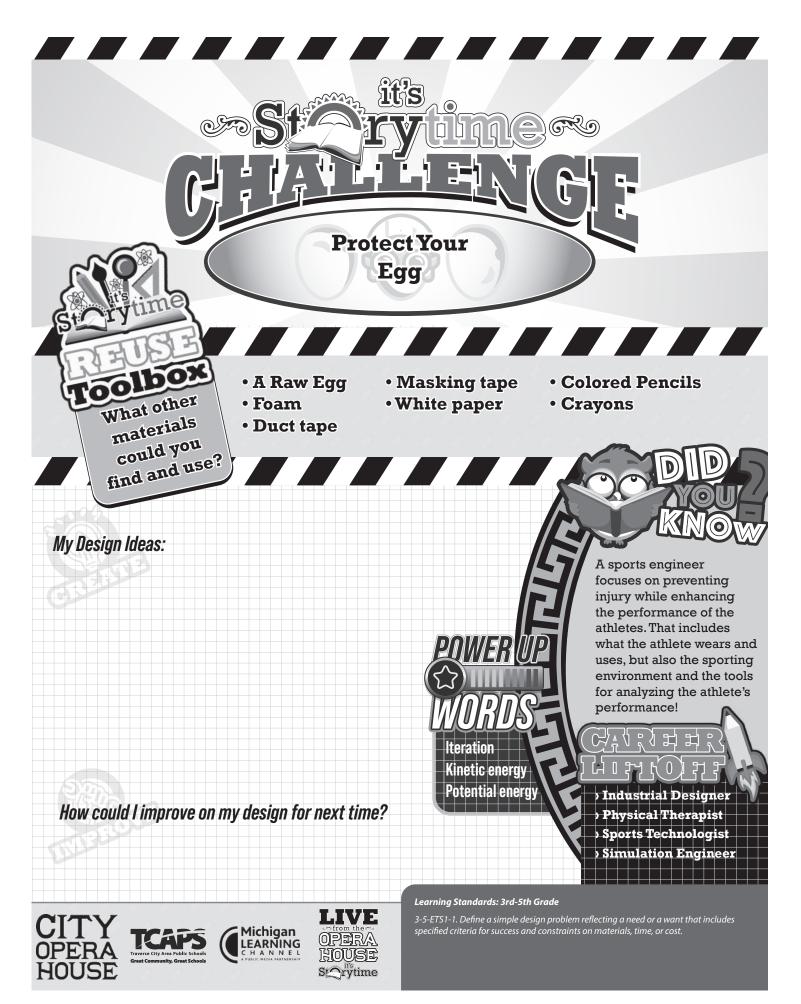


Let's find more ways to show this rule. If you many brown balls would you need?

Veamos más formas de mostrar esta regla. Si tuvieras had three balls, how many green balls and how tres pelotas, ¿cuántas pelotas verdes y cuántas pelotas marrones tendrías?









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.



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?

Read, Write, ROAR!™ 2nd Grade Episode 214

Michigan Learning Channel

Summer Fun Activity Book | Elementary | Michigan Learning Channel |113





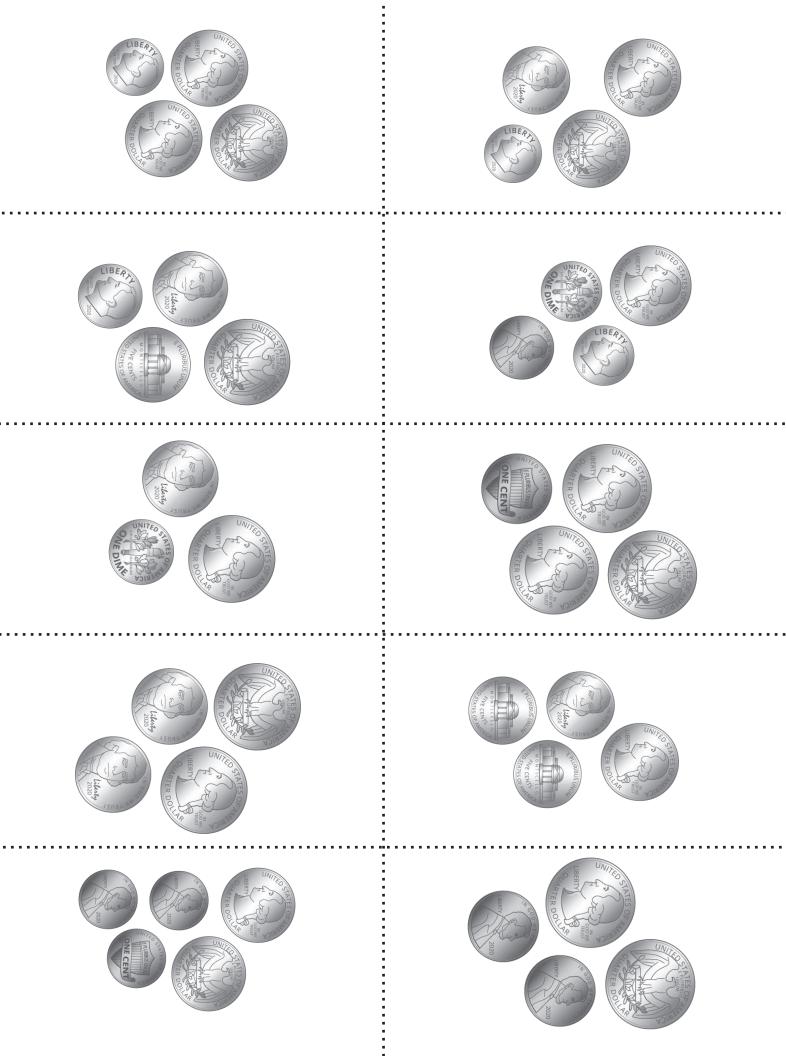
Materials: money cards (cut out)

Directions:

- 1. Put all the cards in one pile face down.
- 2. Player 1 and Player 2 each turn over a card from the top of the pile.
- 3. Each player finds the value of the collection of coins shown on their card.
- 4. Both players compare their cards. The player with the greatest coin value takes both cards.
- 5. Continue to play until all the cards have been taken from the pile.
- 6. The player with the most cards wins!

	Player 1	Player 2	Which player has the greatest value?
1	¢	¢	
2	¢	¢	
3	¢	¢	
4	¢	¢	
5	¢	¢	
6	¢	¢	
7	¢	¢	
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Week 8: Shoot for the Stars

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

Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO!

Playlists this week: www.michiganlearning.org/stars

* * Stargaze	Å 60 mins. of activity	Read 20 minutes	Watch Live from the Opera House	Watch Read, Write, ROAR!
Read 20 minutes	Watch Math Mights	Watch the sunset	Try Luna's word find (pg. 128)	بڑ 60 mins. of activity
Å 60 mins. of activity	Make a poster (pg. 129)	HAVE FUN! (Free Space)	Look at the clouds	Read 20 minutes
Watch Read, Write, ROAR!	Draw a space creature (pg. 124)	Watch Math Mights	Watch InPACT at Home	Visit a new place
Watch InPACT at Home	Read 20 minutes	Stargaze	بڑ 60 mins. of activity	Make flashlight constella- tions





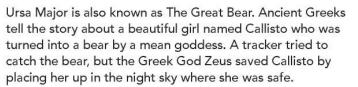




Flashlight Constellations

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.

URSA MAJOR



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.



Find more games and activities at pbskidsforparents.org

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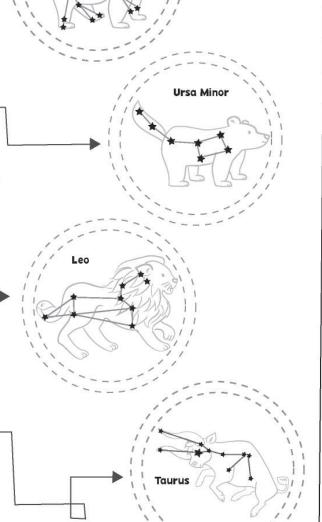
Choose the size circle that fits on your flashlight lens, cutting along the inner or outer dashed circle. Flip the picture so it's facing the flashlight.

Ursa Maior

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.

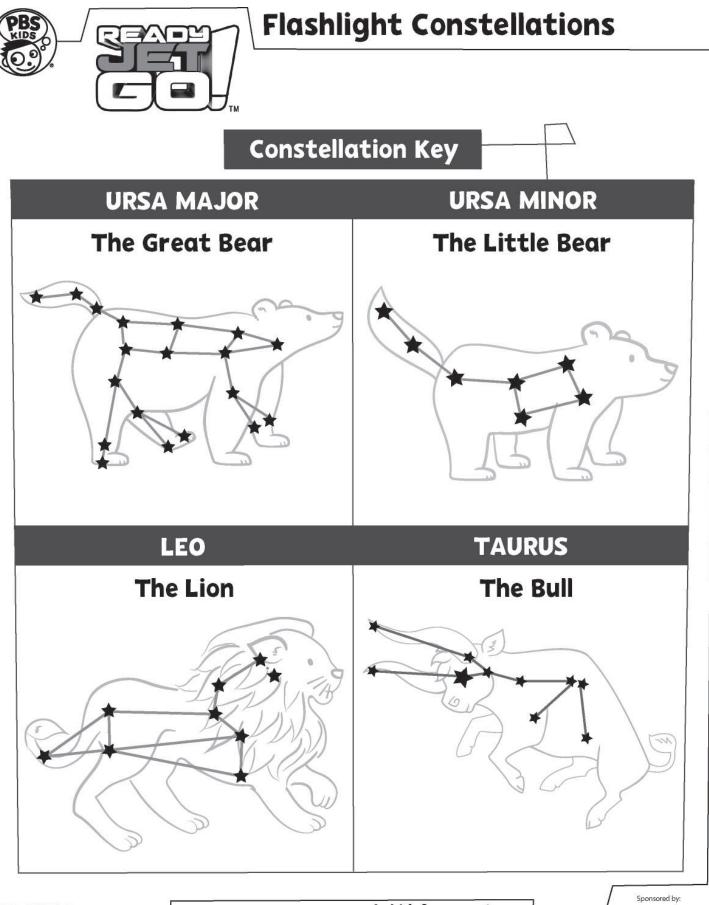
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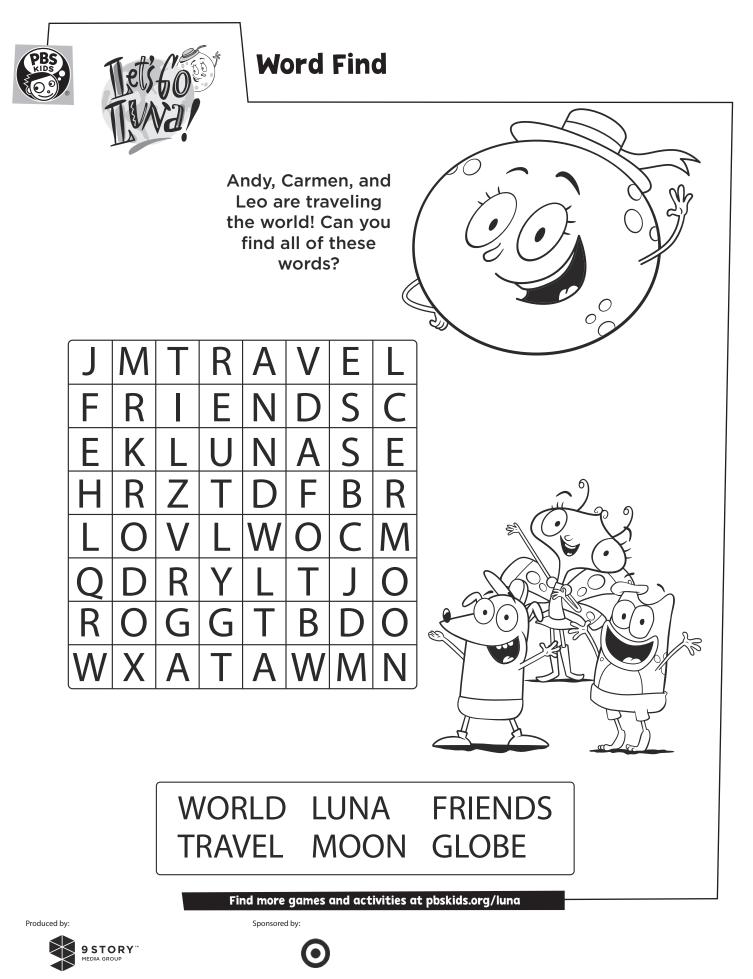


WIND DANCER

Find more games and activities at pbskidsforparents.org

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Big Finale



There is a lot that we can do to impact the environment. What issues are important to you? Think about what you have learned and take the time to share things you can do to support and protect nature in our communities.

WATCH

Watch the clip from *Space Waste Odyssey* where the CyberSquad and Motherboard share what they've learned about creating less trash with the citizens of Cyberspace.

- Remember that the CyberSquad noticed a lot of trash was building up in "trash patches" in Cyberspace. They examined the trash to find out what was causing the problem.
- After watching, think about what environmental issue was important to the CyberSquad and what they did about it:
 - What was the problem that the CyberSquad saw?
 - What was one way that they thought people in Cyber-space could fix that problem?
 - How did they spread the word about making less trash to other people?
 - Why is it important for the CyberSquad to share what they've learned with other people?

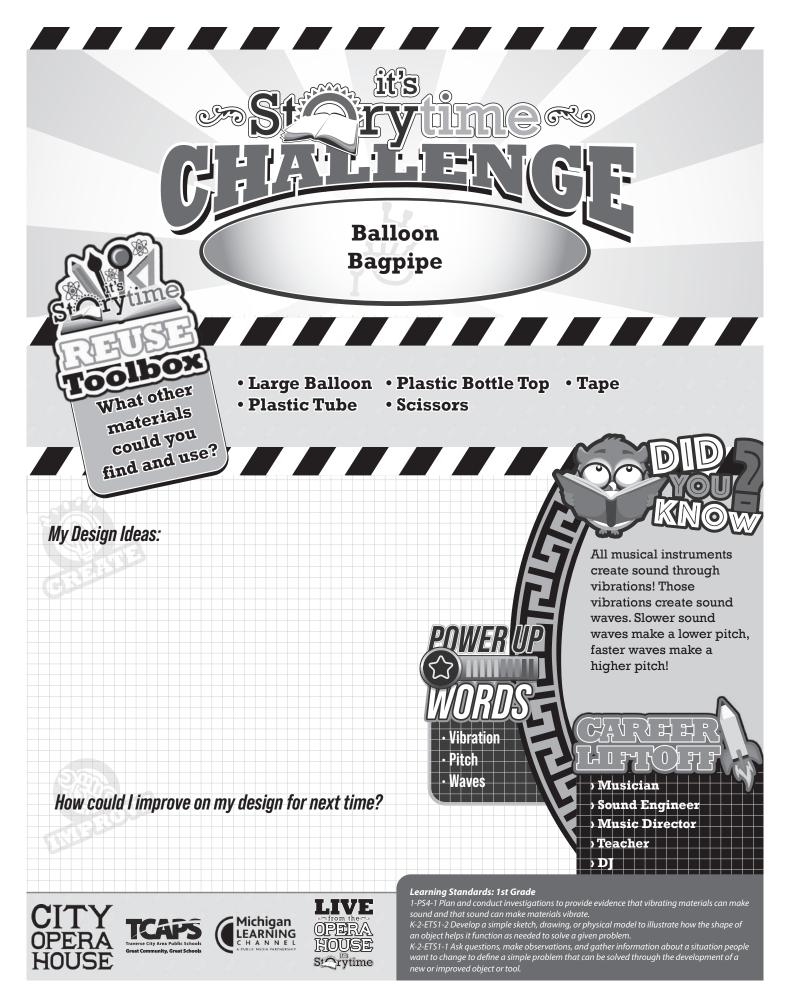
EXPLORE: Use Your Voice

Materials:

- Research materials to learn more about a topic
- Art materials for posters or digital materials (like a cell phone camera or a blog post)

Instructions:

- 1. What is an environmental problem that exists in your school, neighborhood, or at home? Which issues are less well-known by your family, friends, or neighbors?
- 2. Decide on one (or a few) key issues for your community.
- 3. Brainstorm ways to share the information you've learned with as many people as possible. Examples include short video Public Service Announcements (you can use a cell phone camera), a page for the school website, articles for a school newspaper or blog, or posters for public spaces.
- 4. Create! Focus on including information about *why the issue matters* and *what people can do to help*. Then show off what you made!



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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.

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?

Words to Know

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

Types of Compound Words:

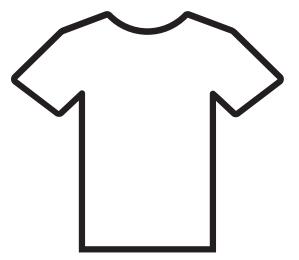
A **simple compound word** has two syllables **sun + shine = sunshine**

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

after + noon = afternoon

Try It

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



Read, Write, ROAR![™] 2nd Grade Episode 215

Michigan Learning Channel Rea 132 | Summer Fun Activity Book | Elementary | Michigan Learning Channel



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

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

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

Choose any one item 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 bought two toys and spent 40¢. What might I have bought?

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

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

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

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

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WHAT IS MEET UP AND EAT UP?

Meet Up and Eat Up provides FREE nutritious meals for children and teens 18 years and younger.

HOW DO I SIGN UP?

No application or sign-up needed, just come and join us!

WHERE IS IT?

To find a location near you Visit: www.michigan.gov/meetupeatup

Call: 211 Text: Food to 304-304 Mande por texto "Comida" al 304-304

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ELEMENTORY