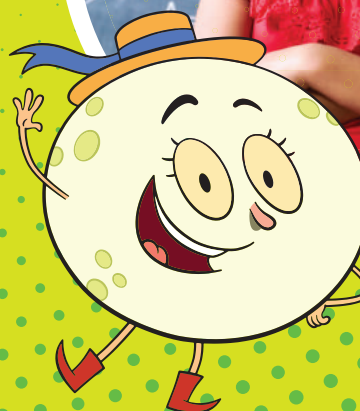




SUMMER!

FUN ACTIVITY BOOK



ELEMENTARY



On TV. Online. Statewide. VISIT MichiganLearning.org

SPECIAL THANKS TO OUR MICHIGAN LEARNING CHANNEL PARTNERSHIPS:

Content Partners:

826Michigan
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Ann Arbor District Library
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Career Girls
Chris Anderson Science Around Cincy
City Opera House
CODE.org
Colorado Springs Conservatory
Detroit Institute of Arts
Detroit Zoo
Grand Rapids Ballet
Huron-Clinton Metroparks
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INPACT at Home
Kinetic Affect
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Library of Congress
Little Kids Rock
Lucky Cat Productions
MAISA Literacy Essentials
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Storycorps
The Diatribe
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United States Air Force
WORLD Channel
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Local PBS Stations

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.



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-anywhere 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):

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.



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!

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 Might's, 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



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.

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

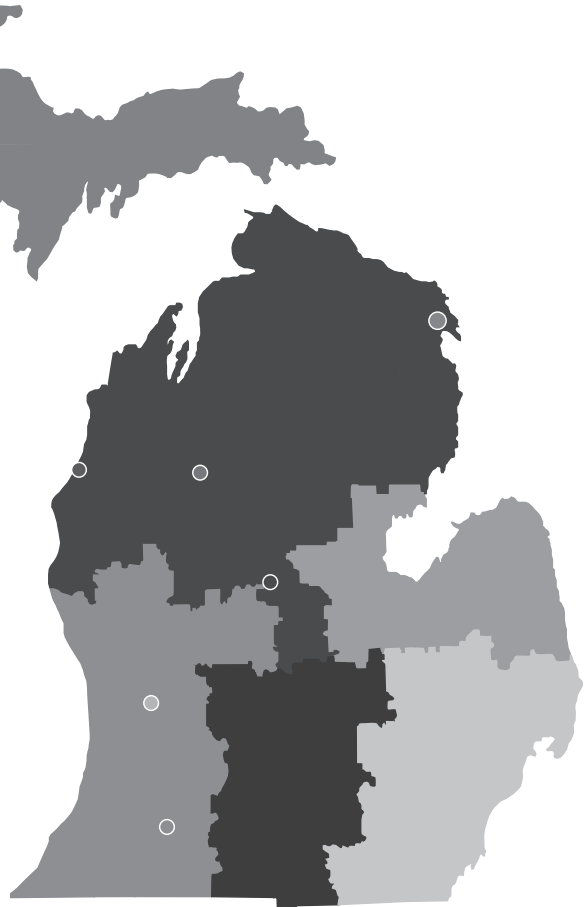


Serving Schools Statewide
Through Your Local PBS Stations

**Watch On-Demand at
MichiganLearning.org**

f t i @MichLearning

**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
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Channel 19.5

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

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

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

Details at MichiganLearning.org/schedule

rev 02/22

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

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	PK-K	Math
7:30/6:30c am	Super WHY!	PK-K	Literacy
8/7c am	Daniel Tiger's Neighborhood	PK-K	Social & Emotional Learning
8:30/7:30c am	Daniel Tiger's Neighborhood	PK-K	Social & Emotional Learning
9/8c am	Sesame Street	PK-K	Literacy, Math, Social & Emotional Learning
9:30/8:30c am	Elinor Wonders Why	PK-K	Science & Engineering
10/9c am	Clifford the Big Red Dog	PK-K	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	PK-K	Science & Engineering
4/3c pm	Donkey Hodie	PK-K	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

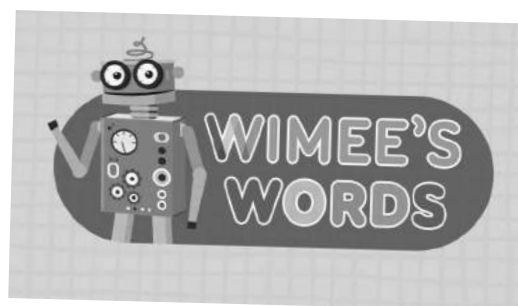
As part of the Summer Program, students can participate in live virtual events via Facebook Live. Events are interactive and presenters will take student suggestions and questions in real time. Recorded versions of these events will also be available online.

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.



GREATLAKESNOW

Great Lakes Now Watch Party

Friday, July 1, 1pm

Friday, August 5, 1pm

Live on the Michigan Learning Channel Facebook page



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.



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.

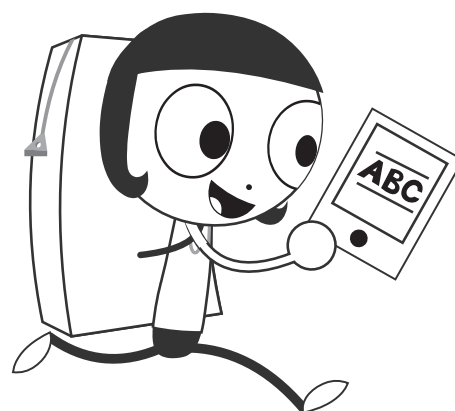


Apps for Social & Emotional Learning

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

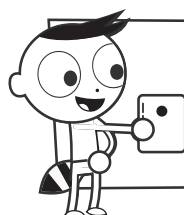
Apps for Literacy Learning

Dinosaur Train A to Z	PK-K	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	Photo Stuff with Ruff	K-2	Science
Play & Learn Engineering	PK-K	Science and Engineering	Ready Jet Go! Space Explorer	K-2	Science
PBS KIDS Measure Up!	PK-K	Math	Ready Jet Go! Space Scouts	K-2	Science and Engineering
Play & Learn Science	PK-K	Science	Nature Cat's Great Outdoors	K-3	Science
Splash and Bubbles for Parents	PK-K	Science	PBS KIDS ScratchJr	1-2	Coding
Splash and Bubbles Ocean Adventure	PK-K	Science	Outdoor Family Fun with Plum	1-3	Science and Engineering
The Cat in the Hat Builds That!	PK-K	Science and Engineering	Cyberchase Shape Quest	1-5	Math
The Cat in the Hat Invent's	PK-K	Science and Engineering	PBS KIDS Games app	K-2	Multiple Learning Goals
Jet's Bot Builder: Robot Games	K-2	Science and Engineering	PBS KIDS Video app	K-2	Multiple Learning Goals



pbskids.org/apps



Week 3: 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.

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)	 60 mins. of activity	 Read 20 minutes	Make bubble mix (pg. 44)	Watch Read, Write, ROAR!
 Read 20 minutes	 Watch Math Might	Spot a mail truck outside	 Do a good deed	 60 mins. of activity
 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 Might	Watch InPACT at Home	Make superhero wrist cuffs (pg. 41)
Watch InPACT at Home	 Read 20 minutes	Try a new food	 60 mins. of activity	Spot a fire truck outside



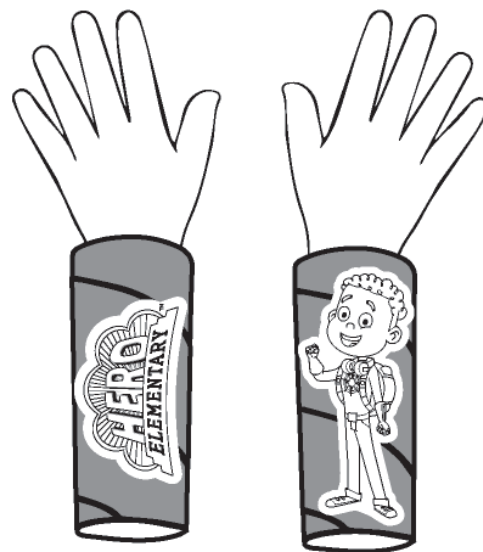
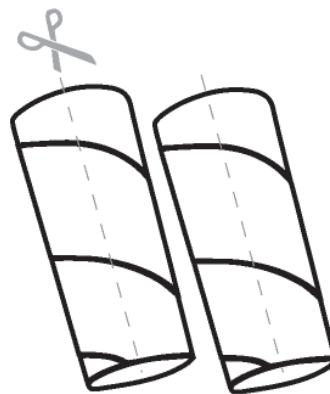


Recycled Superhero Wrist Cuffs

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!



AJ Gadgets

For more games and activities, visit pbskidsforparents.org

Funded by:

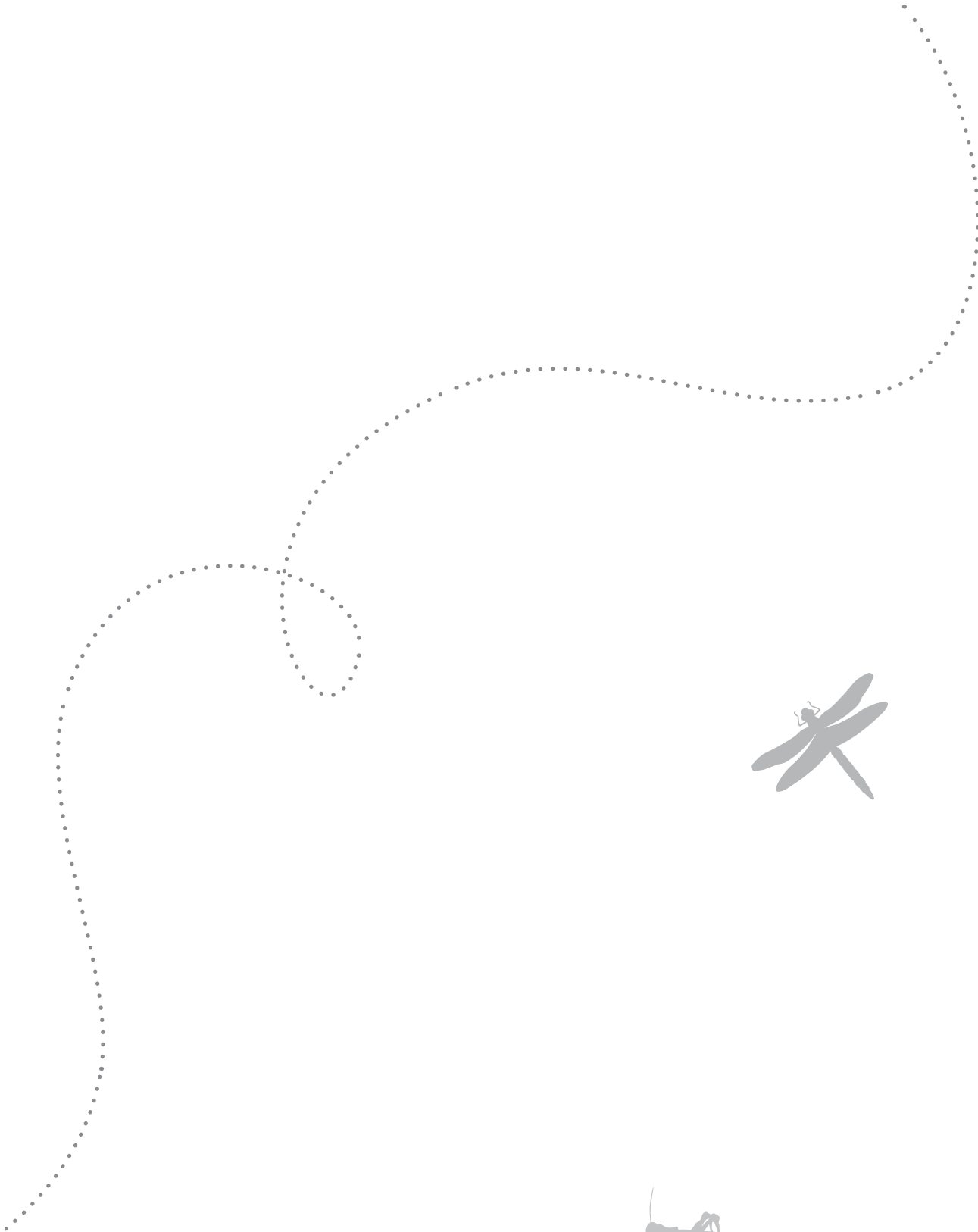


ABCMouse.com





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Gadget Gurus

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

What you need:

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



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

The contents of this program were developed under a grant from the U.S. Department of Education (PR U295A150012). However, those contents do not necessarily represent the policy of the Department of Education, and you should not assume endorsement by the Federal Government.



ABCMouse.com



Funding for Hero Elementary is provided by a Ready To Learn grant from the U. S. Department of Education. Additional funding made possible by ABCmouse.com and Target.



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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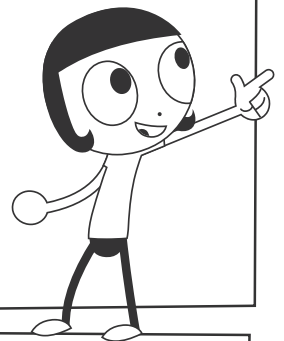
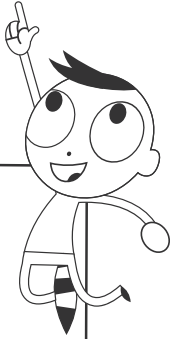
ABCMouse.com

Funding for Hero Elementary is provided by a Ready To Learn grant from the U. S. Department of Education. Additional funding made possible by ABC Mouse.



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.

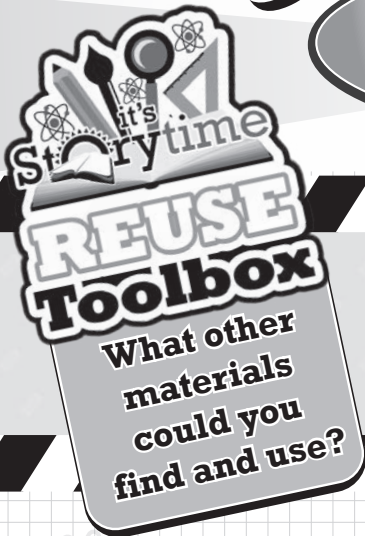


Find more games and activities at

pbskids.org

it's Storytime CHALLENGE

Make Your Own Stethoscope



- Duct tape
- Plastic Funnel
- Stopwatch or Clock
- Scissors
- Cardboard Tube

My Design Ideas:

DID YOU KNOW?

Heroes are definitely in the medical field, but there are heroes everywhere! Police officers, teachers, scientists, firefighters, and soldiers are all heroes. And that's not all! Who in your community is a hero?

POWER UP WORDS

- Oxygen
- Exercise
- Heart Rate

CAREER LIFTOFF

- › Physician
- › Biomedical Engineer
- › Nurse
- › Physical Therapist
- › Veterinarian

How could I improve on my design for next time?

Learning Standards: 3rd grade

3-5-ETS1-3 Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

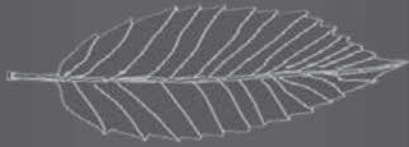
CITY OPERA HOUSE

TCAPS
Traverse City Area Public Schools
Great Community, Great Schools

Michigan LEARNING CHANNEL
A PUBLIC MEDIA PARTNERSHIP

LIVE from the OPERA HOUSE
it's Storytime

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 **yellow 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.

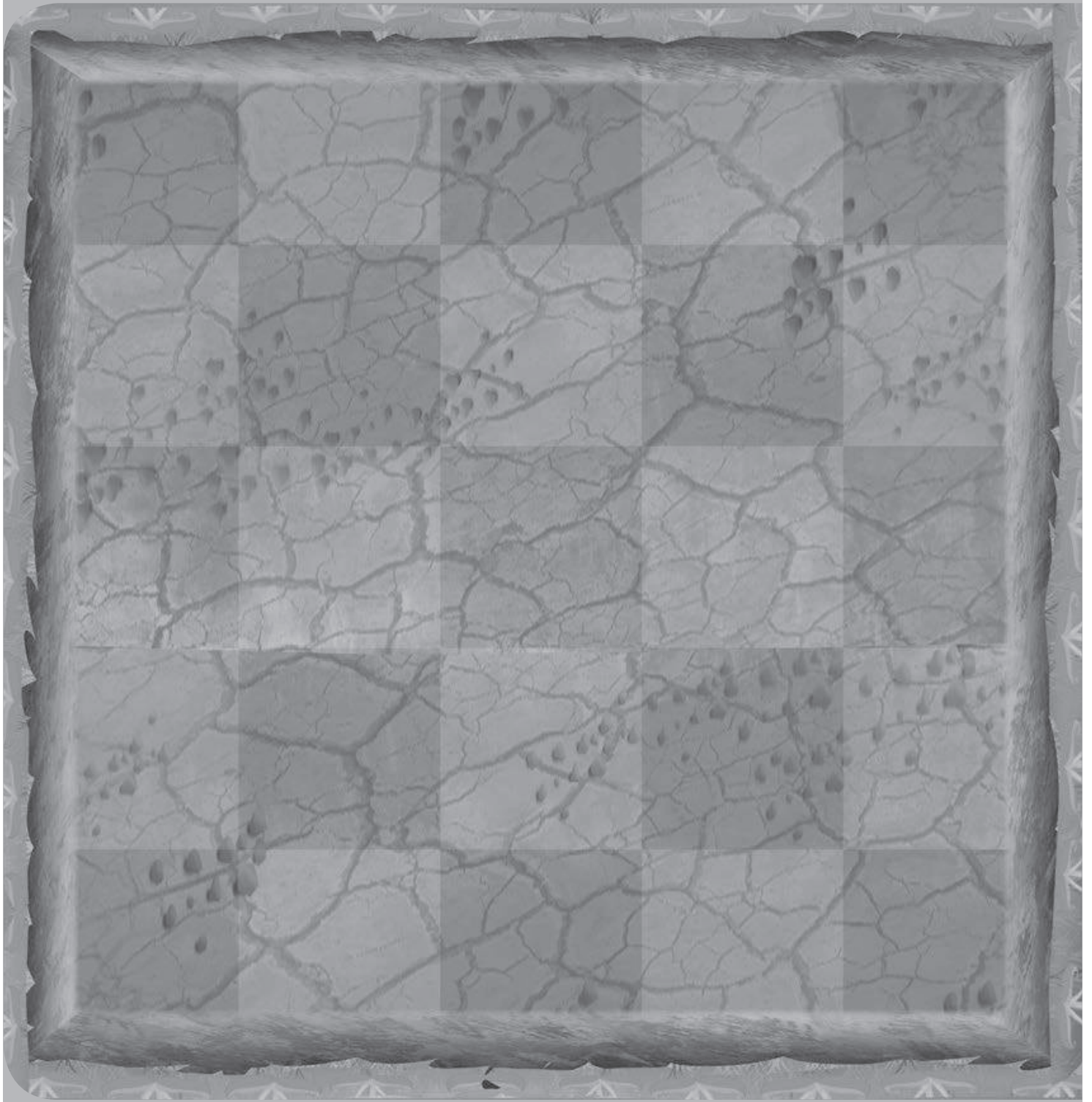
Las flores, como los árboles, ayudan a limpiar nuestro aire y a embellecer las ciudades. Ayuda al CyberSquad a diseñar un jardín comunitario para un nuevo Cyber Site siguiendo estas reglas:

- 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.



Use a crayon or marker to color in:
 Utiliza un crayón o marcador para colorear:

5

GREEN



VERDE

8

YELLOW



AMARILLO

5

PINK



ROSA

7

BLUE



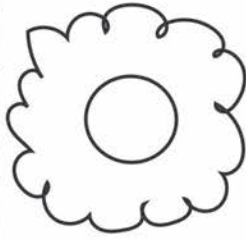
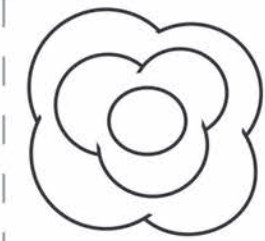
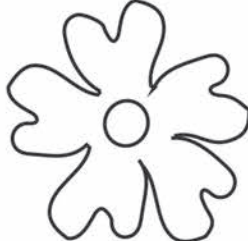
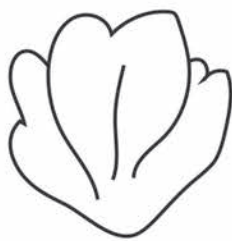
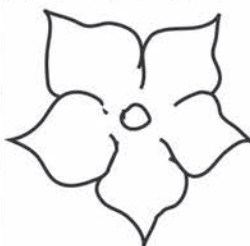
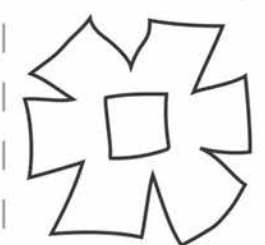
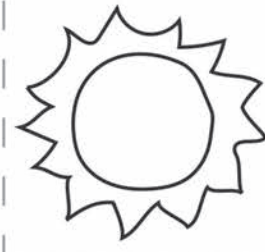
AZUL



PLANTING PUZZLE

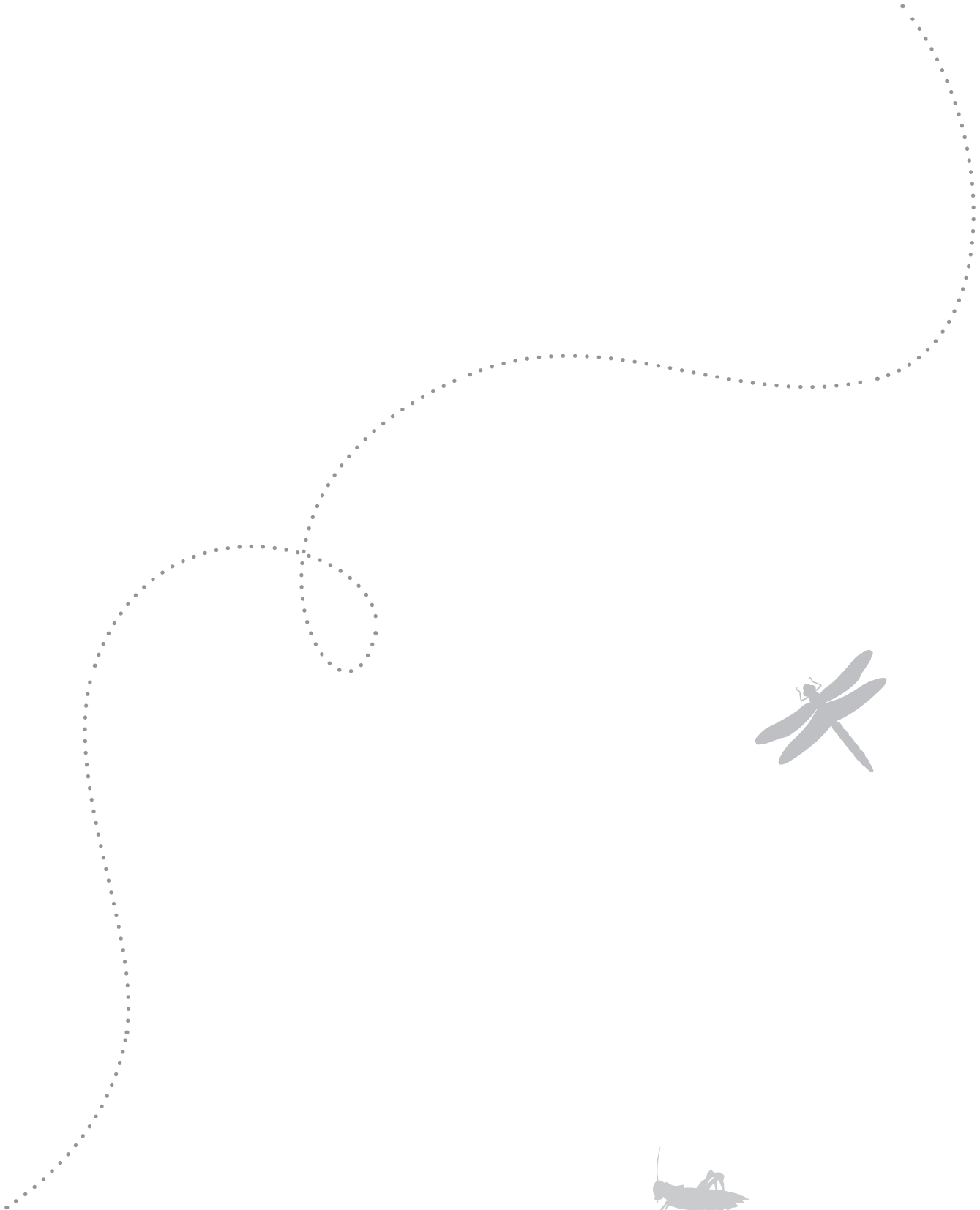


EL ROMPECABEZAS
DE LA SIEMBRA





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activity on the other side.**





GROW YOUR OWN GARDEN



CULTIVA TU PROPIA HUERTA

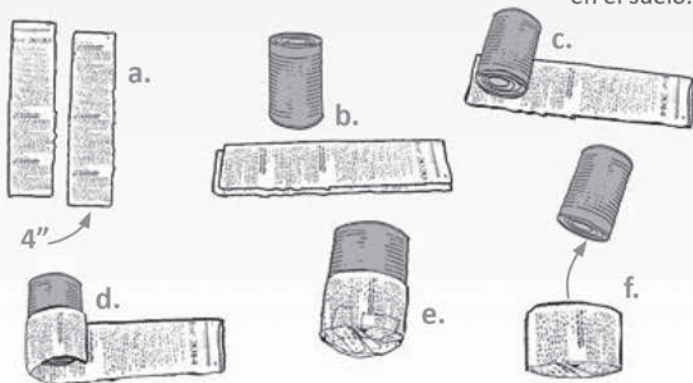
Delicious, healthy vegetables don't just come from the store. You and your family can grow them from seeds at home! You don't need a big farm to grow vegetables. Even a small space can be home to a garden.

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.
3. 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.
5. 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.
 - d. 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.
3. 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.
5. 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 GUIDE

Episode 206: Earth's Hemispheres and Character Dialogue

Scan below to watch lesson



Words to Know

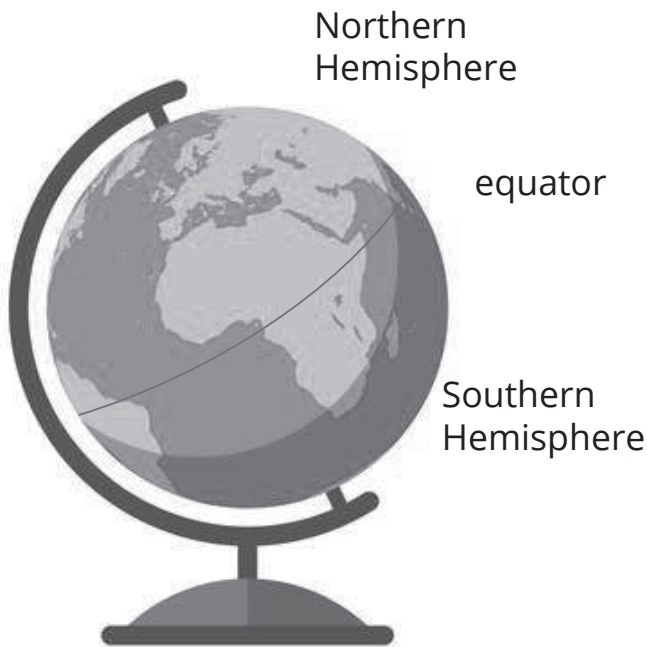
equator - The imaginary line around the middle of the Earth

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

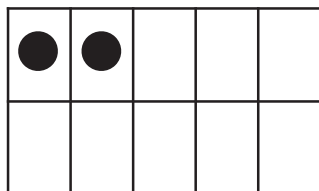
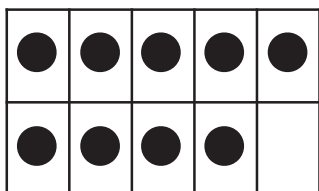
Combine each base word with the given prefix. Write the new word in the space provided and read each definition. Try using the new words in a sentence, and share them with a family member.

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

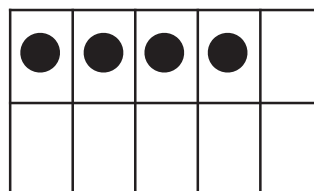
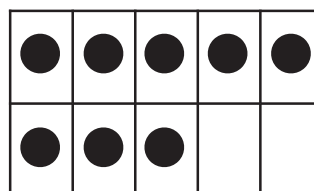


Make a 10 With D.C.

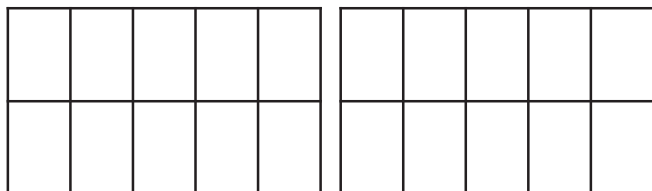
Directions: Use the ten frames to make 10. Solve the addition problem.



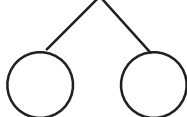
$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



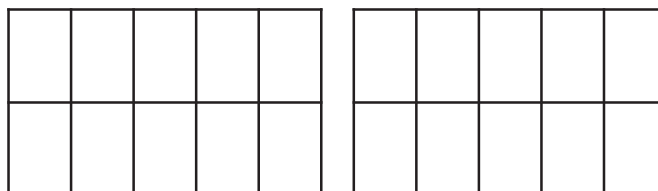
$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



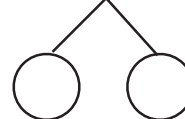
$$7 + 5 = \square$$



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



$$9 + 8 = \square$$



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



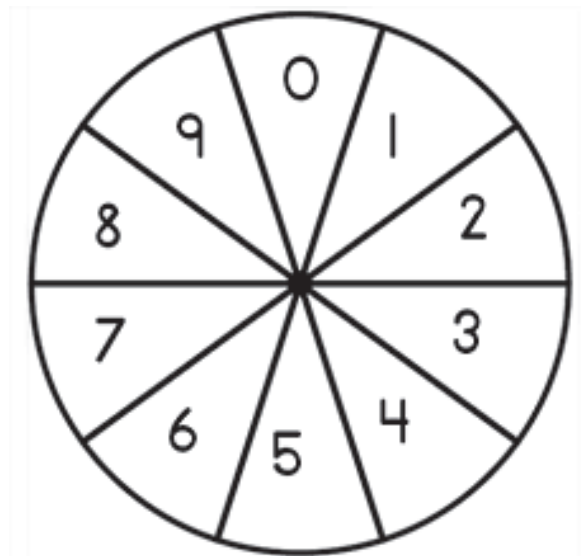
Which is Greater?

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 the place value board to build your number.
3. Player 2 repeats step 2. Continue taking turns spinning until both players have built their 3-digit number. Record your numbers on the chart below.
4. Work with your partner to compare the 2 numbers and fill in $<$, $>$, $=$. The player with the greater number wins! Play 5 rounds and the best out of 5 wins!



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

Place Value Boards

hundreds

tens

ones

hundreds

tens

ones



Locate the Fraction

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

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



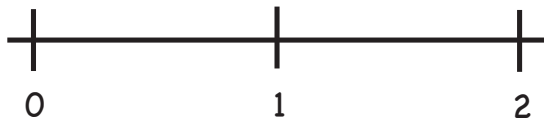
$$\frac{1}{8}$$



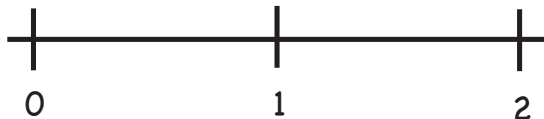
$$\frac{1}{3}$$



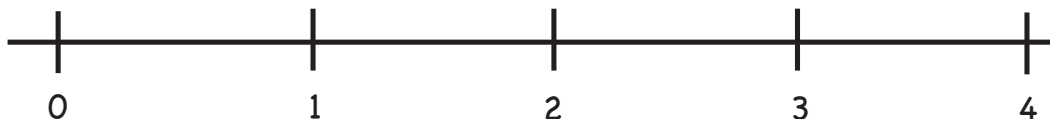
$$\frac{1}{4}$$



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



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



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ELEMENTARY



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