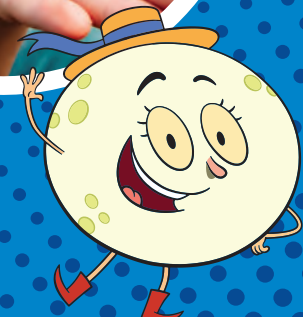




SUMMER!

FUN ACTIVITY BOOK



**UPPER
ELEMENTARY**

On TV. Online. Statewide. VISIT MichiganLearning.org












Week 1: Animals

June 19-25

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

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



Watch Curious About Careers	 60 mins. of activity	 Read for 20 minutes	Make a bird feeder	Watch DIY Science Time
 Read for 20 minutes	Watch Story Pirates	 Look for birds	Try "Environmental Science Issues"	 60 mins. of activity
 60 mins. of activity	Watch Math Park	 HAVE FUN! (Free Space)	Go for a walk or hike	 Read for 20 minutes
Watch Cartoon Academy	 Spot a squirrel	Go for a walk or hike	Watch InPACT at Home	Research a featured career
Watch InPACT at Home	 Read for 20 minutes	Watch Live From the Opera House	 60 mins. of activity	Write a story about an animal



Make a Bird Feeder



What You Need:

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

What to Do:

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



Find more games and activities at pbskids.org/naturecat

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Environmental Science Issues

The video "Environmental Science Issues" discusses the importance of our environment and the steps that we can take to help protect it. Taking care of the environment is everyone's responsibility.

Try This!

Use the space below to draw your favorite environment. It might be a beautiful beach, a tranquil park, a wild forest, or anywhere that you would love to be. Then answer the questions that follow.

My Favorite Environment

What makes this your favorite environment?

What threats does your favorite environment face? For example, what might happen if someone came and cut down the trees or dumped trash on the beach?

What could you do to help protect your favorite environment?

MATH PARK

Multiplying by 10

Directions: Scan the QR code to watch the video, and then solve the multiplication problems.



$$10 \times 1 = 10$$

$$3 \times 10 =$$

$$10 \times 11 =$$

$$10 \times 8 =$$

$$10 \times 2 =$$

$$5 \times 10 =$$

$$10 \times 3 =$$

$$0 \times 10 =$$

$$9 \times 10 =$$

$$8 \times 10 =$$

$$10 \times 10 =$$

$$7 \times 10 =$$

$$10 \times 9 =$$

$$11 \times 10 =$$

$$10 \times 6 =$$

$$10 \times 5 =$$

$$4 \times 10 =$$

$$12 \times 10 =$$

SHOW

NOT TELL!

THE STORY PIRATES CREATOR CLUB



Character Traits

Who is your character?

Choose a character trait to describe them.
There are some suggestions below!

SHOW the character trait to the reader! Write about what the character is
DOING because of that trait.

Other words for "kind"

considerate
generous
helpful
thoughtful

Other words for "energetic"

exuberant
lively
spirited
vivacious

Other words for "friendly"

affable
amiable
gregarious
welcoming

Other words for "funny"

amusing
comical
hilarious
silly

Other words for "wise"

knowledgeable
perceptive
prudent
shrewd

Other words for "unfriendly"

antisocial
disagreeable
hostile
rude

Other words for "lazy"

lackadaisical
lethargic
passive
weary

Other words for "hard- working"

diligent
industrious
persevering

DIY Air Cannon



FUN FACT

Dolphins can create vortex rings to play with in the ocean by blowing air through their blowholes. The quick burst of air combined with the round shape of the blowhole creates a vortex ring of bubbles.

AIR PRESSURE

Air pressure, also known as atmospheric pressure, is the force exerted on a surface by the weight of air. Even though it is invisible to our eyes, the air surrounding us puts about 14.7 pounds per square inch of pressure on everything on the surface of Earth. That's a lot of pressure!

MATERIALS

- Plastic or styrofoam cups
- Scissors
- Balloon
- Various items to knock over

DIFFICULTY



Why do scientists love renewable energy so much?

*Answer on the next page

VISIT
DIYSCIENTIME.ORG
FOR MORE SCIENCE FUN!



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DIY Air Cannon

EXPERIMENT

Step 1: Gather your materials.

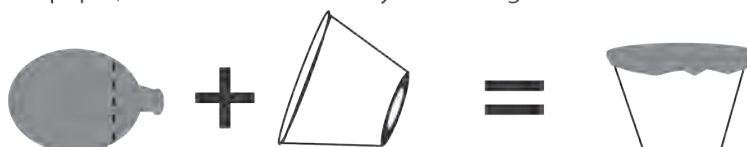
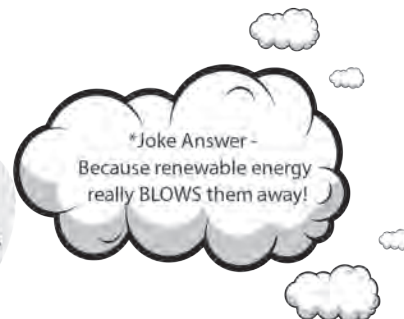
Step 2: Cut the neck off of the balloon and keep the large part.

Step 3: Carefully cut a hole in the bottom of the cup about the size of a dime with your scissors.

Step 4: Attach the cut balloon to the mouth of the cup. Be sure to stretch it tightly and reinforce by wrapping a rubber band around the lip of the cup.

Step 5: Tap or gently pull back the balloon and let it go to force the air out of your cannon.

Step 6: Set up a target, such as hanging toilet paper, to test to see how far your air rings can reach.



WHY IT WORKS

Although you can't see it, your cup is filled with air. When you apply a force to the air molecules by pulling back the balloon and letting it snapback, the air molecules are pushed towards the opening. This movement sets off a quick chain reaction of collisions with other air molecules and the sides of the cup. The only way for the air molecules to escape is through the opening at the bottom of the cup. The quick escape of these air molecules forms a stream of air that flows straight out of the cannon.

EXTEND YOUR LEARNING

- What might happen if you used a different sized cup? Could you cut a 2 liter bottle to make a larger cannon?
- Could you try another stretchy material to take the place of the balloon?
- Does it change the experiment if you make the hole a different shape? What if you place it in a different spot?
- Experiment with your air cannon to see what changes allow you to shoot air the furthest.
- Have a target competition with a friend.

WORKFORCE CONNECTION

A meteorologist studies interactions between temperature, humidity, air pressure, precipitation and vortices in the atmosphere. They develop an understanding of how vortices such as tornadoes, waterspouts and hurricanes form so they can predict the weather to keep people informed and safe. They also study and learn about the polar vortex and how it affects the weather during winter.

it's Storytime CHALLENGE

Create a better way to combine
and carry multiple drinks
(rather than a plastic 6-pack ring).



What other materials
could you find and use?

- Cardboard
- Paint Stirrers
- Popsicle Sticks
- Rubber Bands
- Tape/String/Glue
- Ruler
- Wax Paper/Aluminum Foil



ASK

▶▶▶ What is the problem?



IMAGINE

▶▶▶ Brainstorm possible solutions.



PLAN

▶▶▶ Pick an idea and plan out how
you are going to do it.



CREATE

▶▶▶ Build it!



IMPROVE

▶▶▶ What worked? What didn't?
How can you make it better?



SHARE

▶▶▶ Share your idea!

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Storytime

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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

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The contents of this book were developed under a grant from the U.S. Department of Education. However, those contents do not necessarily represent the policy of the Department of Education, and you should not assume endorsement by the Federal Government. The project is funded by a Ready To Learn grant (PR/Award No. S295A200004, CFDA No. 84.295A) provided by the Department of Education to the Corporation for Public Broadcasting.