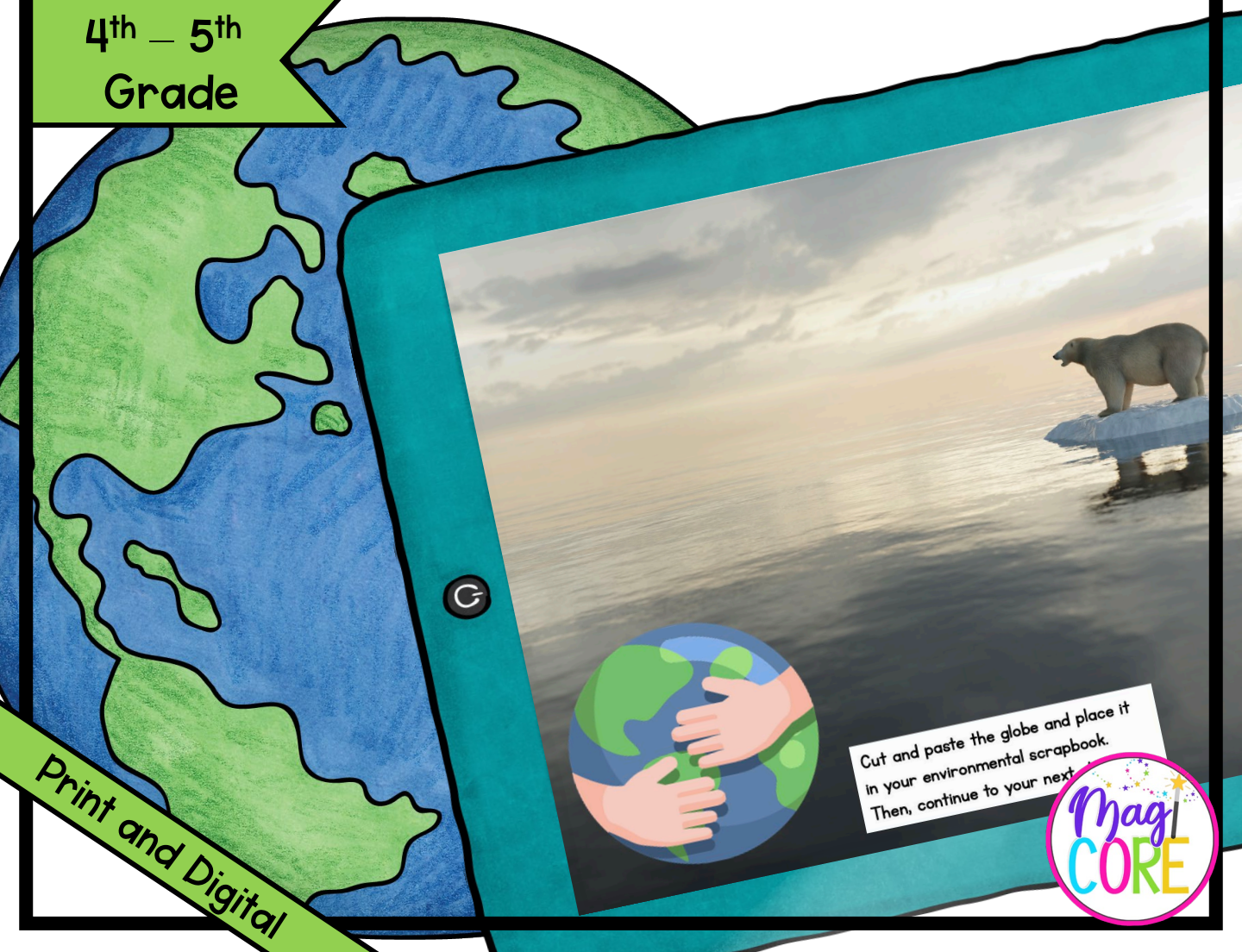
Earth Day Bundle



Save the Planet

Reasons Support Points Escape Room

4th – 5th Grade



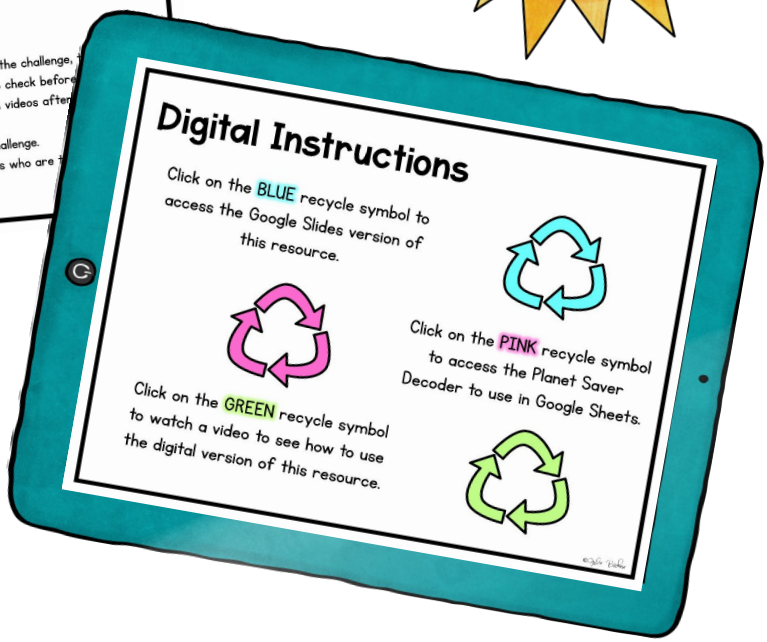
Print and Digital

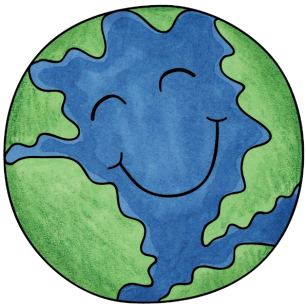
MagiCORE

Print & Digital Options









Videos Tell the Story



Four Reasoning Skills Challenges

Challenge #3



Read the passages and answer the questions to collect the recycling bin and keep plastic out of the landfills.

©Jodi Bachar

Challenges Assess Various Skills

Challenges



1. Identify the author's main point to explore the change in Earth's oceans and collect the globe.
2. Identify the evidence that supports the author's main point to help replenish the rainforest by planting a tree.
3. Use text evidence to support the author's main point to collect the recycling bin and keep plastic out of the landfills.
4. Read a multi-paragraph text to practice finding how reasons support an author's point. Collect the conservation badge to help protect your favorite animal species.

©Jodi Bachar

Short Passages

2. Reasons Support Points

Guess what most people do with batteries when they are no longer usable? They throw them away in regular waste. However, this is not a good or Earth-friendly practice. Battery recycling is the process of collecting dead batteries so that they can be disposed of properly. Batteries contain metals such as lead, copper, and zinc. In the form that is used in batteries, these metals are very harmful to the environment. In fact, most are highly toxic. Collecting batteries properly allows for the extraction of some of these metals. Then, the metals can be used again and not thrown away. The parts that cannot be extracted are disposed of in a way that is less harmful to the environment. This is such an important practice that many countries now have rules about battery recycling.

Which sentence expresses the main point of the article?

a. The harmful metals in batteries include lead, copper, and zinc.
b. Most people throw their old batteries away with the regular trash.
c. Batteries must be disposed of properly to protect the planet.
d. Battery recycling is important to extract the metals in used batteries.



©Jodi Bachus

Long Passages

Reasons Support Points

The term "climate change" refers to any long-term difference in the Earth's global climate over time. The change can be warmer (global warming) or colder (global cooling). These changes can be caused by natural processes inside the Earth, natural forces from the atmosphere, or human activities. These changes may take tens, hundreds, or perhaps millions of years. Earth is currently experiencing a climate change crisis that will cripple some of its most important living species.

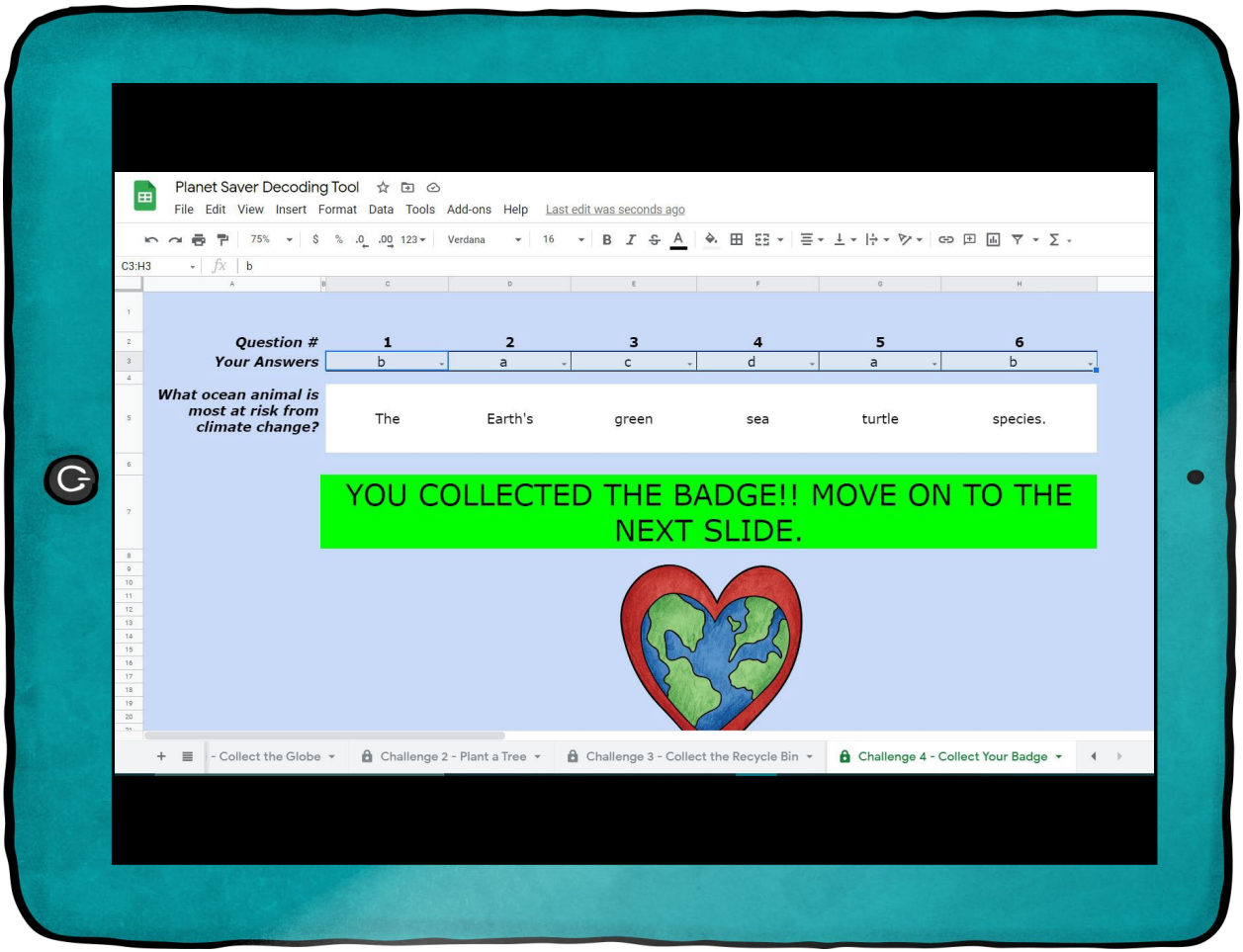
Earth's ocean species have experienced change due to global warming. Heat waves in the ocean occur now more frequently due to climate change. Plants and animals in the ocean have been forced to migrate towards the colder poles. This has had harmful effects a wide range of organisms such as corals, kelp, and seabirds. Harmful algae bloom has increased due to climate change. This algae has disrupted food webs. Coastal ecosystems, such as wetlands, are also under stress. Almost half of Earth's wetlands have disappeared as a consequence of climate change and other human impacts.



Google Slides Prompt Students to use Decoder



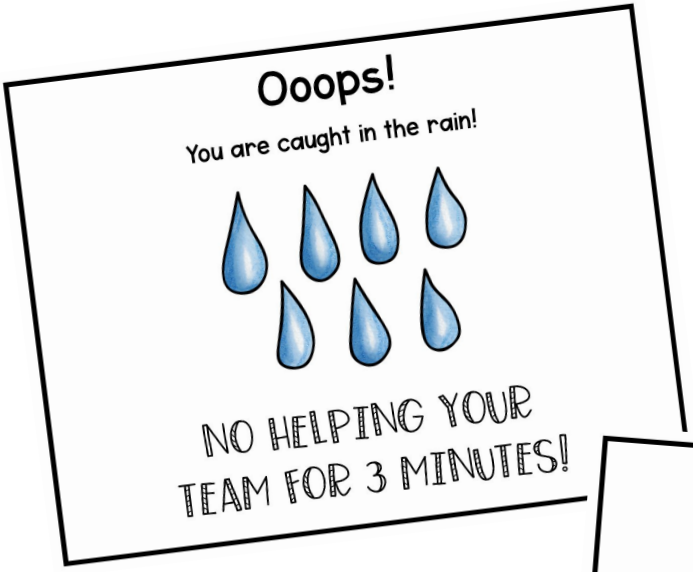
Decoder in Digital Version is Self-Checking

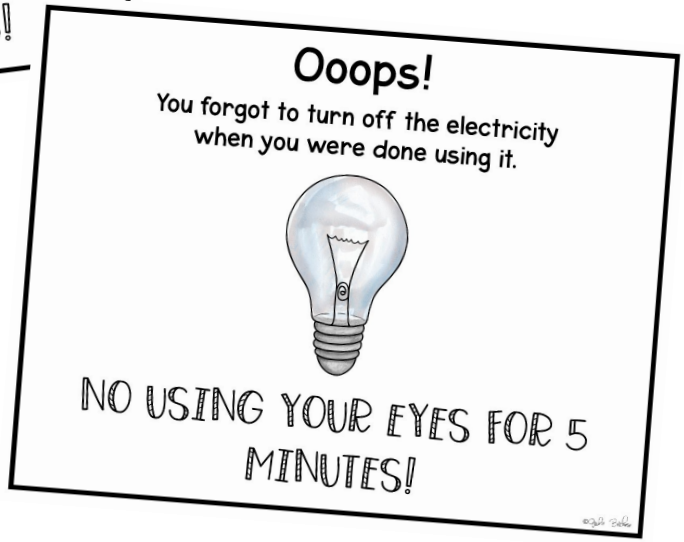


Interactive Elements

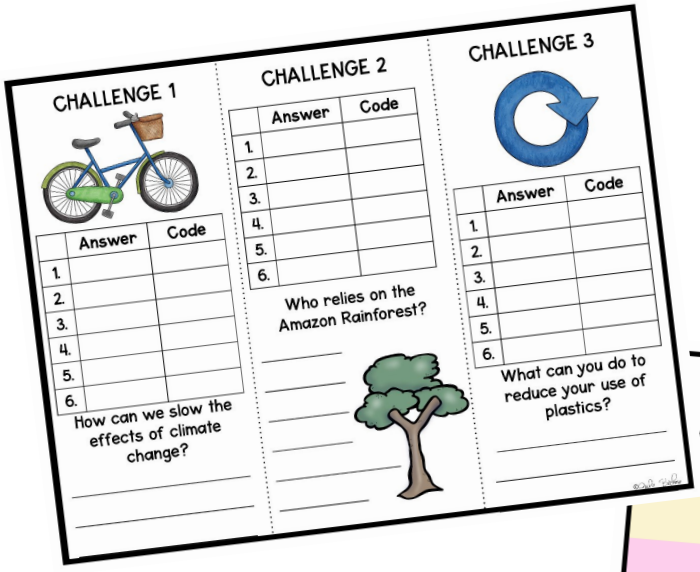


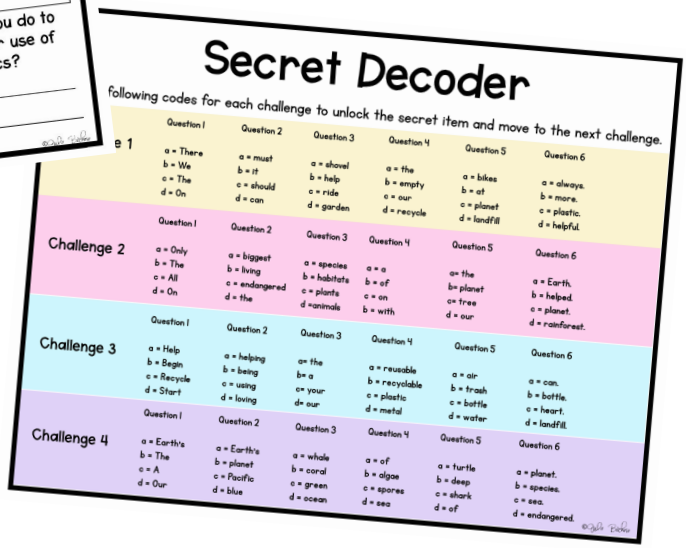
Printable Version Includes "Ooops!" Challenges





Printable Version Includes Recording Brochure & Decoder





Virtual Field Trip:

Recycling Facility for Earth Day



STEAM


Create Your Own Recycled
Click and drag the pictures to create a piece of recycled art.
Back to Stamps

Integrates Reading

Let's Explore!: What Is Recy

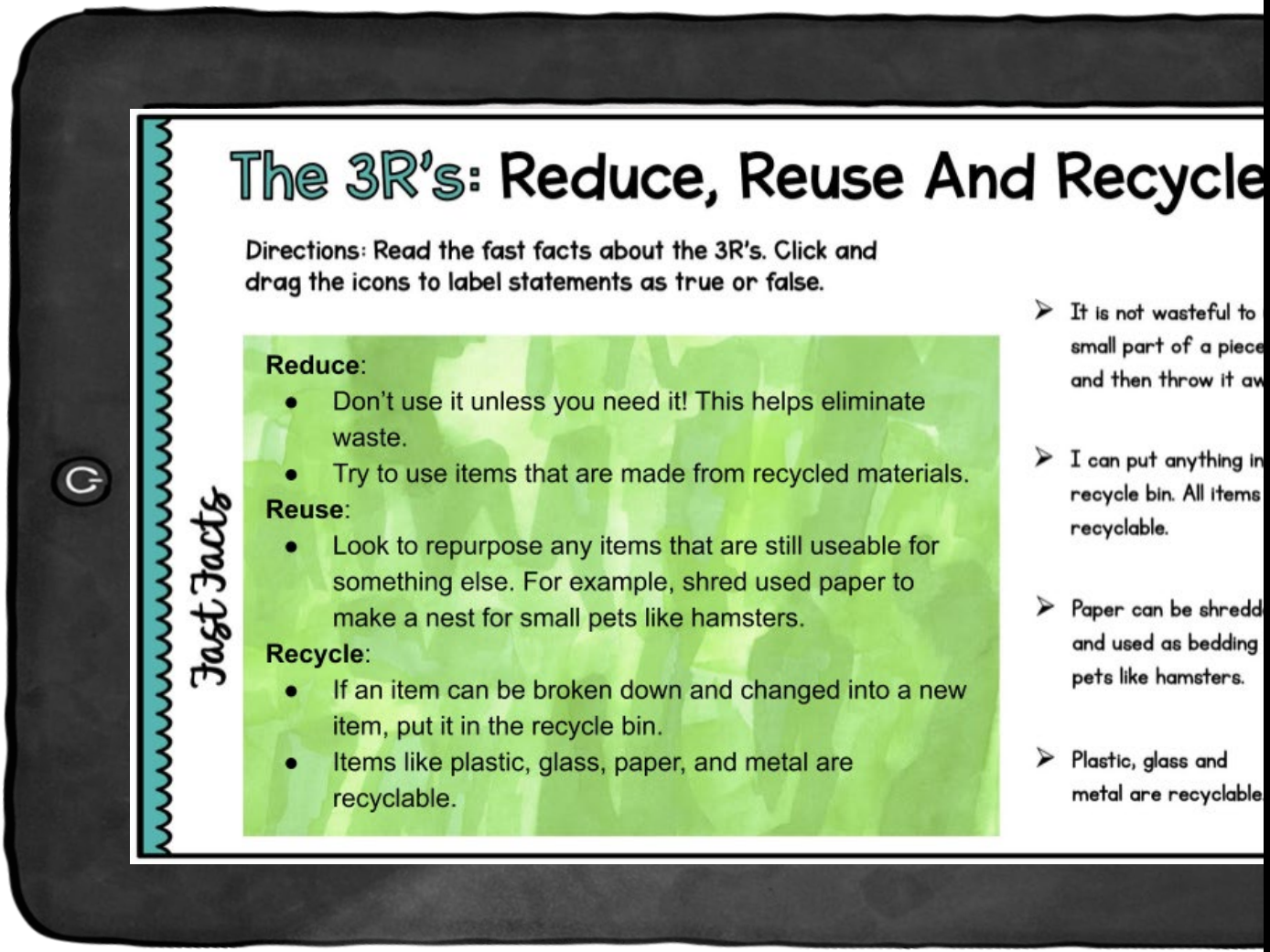
Recycling is the process of taking items that could go in the trash and co other things. Not every item we use can be recycled when we are finished with certain types of plastic, and metal can all be recycled. The process for recyclin items by type. For example, all glass items go together. After the items are so down into their basic form, cleaned, and turned into something new. For exam paper is recycled, it is washed to remove the ink and glue. The next step is to take the wet, mushy paper and put it in a larger mixer with water. The wet paper is called slurry. Slurry is mixed with other materials to make different paper products. The slurry is set on rollers to dry. Then the new dried paper is rolled and cut for use.



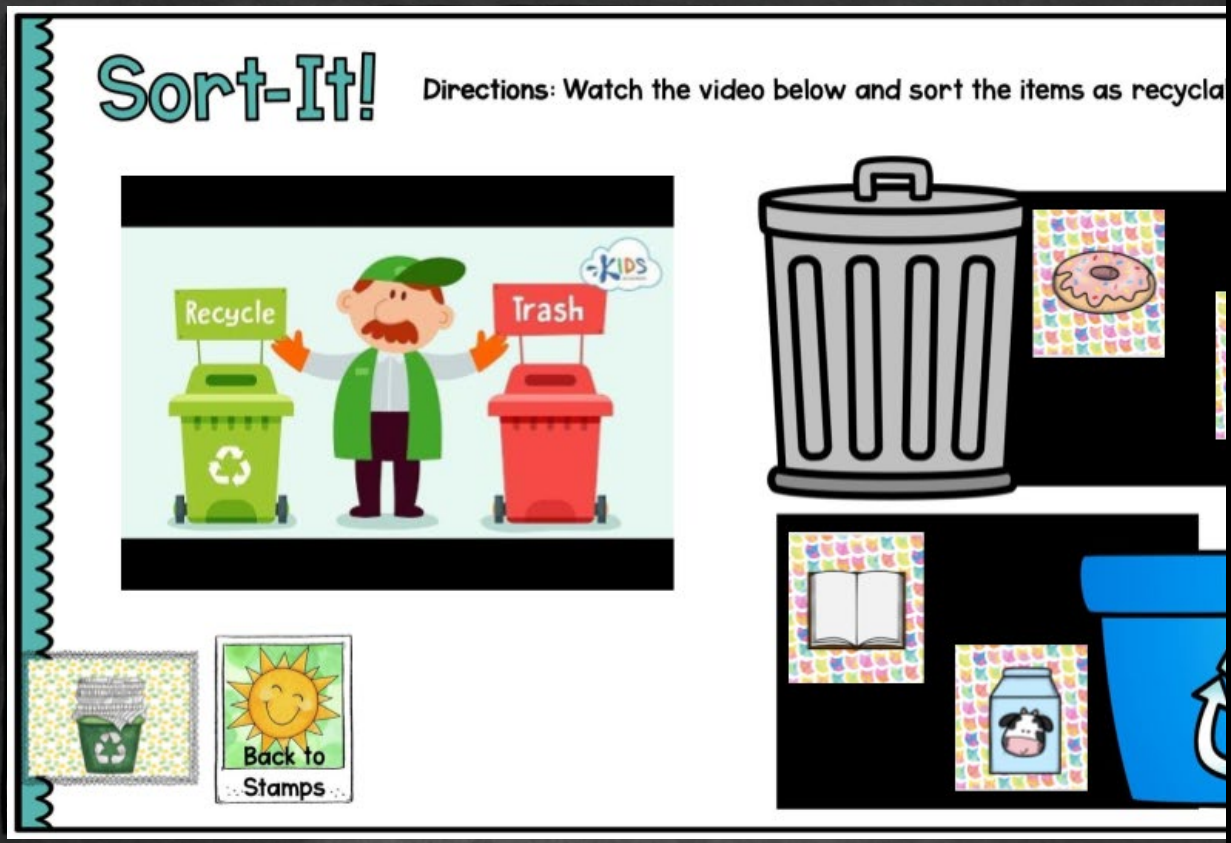
Click more

What is slurry?

Call to Action!

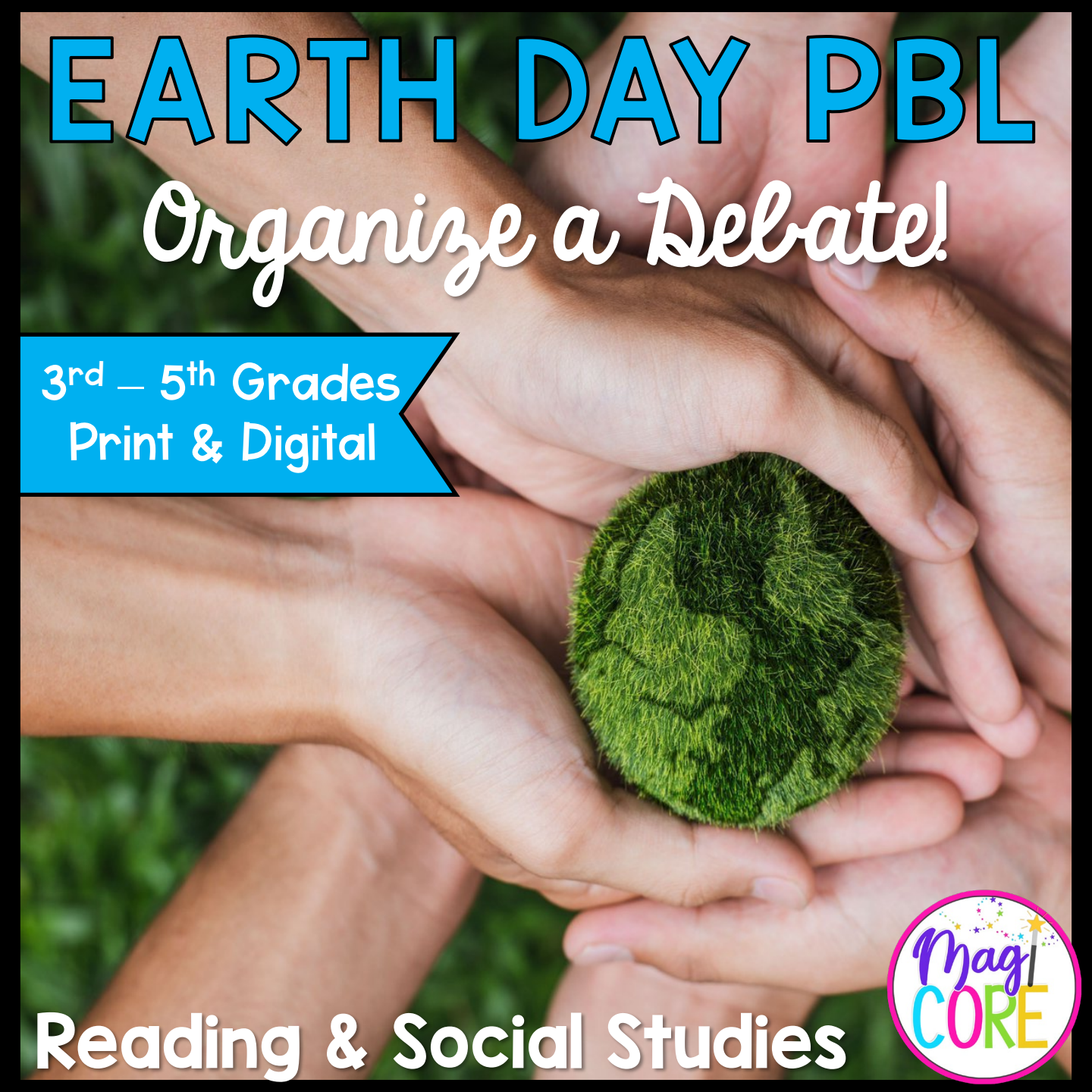


Engaging & Educational Media



Critical Thinking Skills




EARTH DAY PBL
Organize a Debate!
3rd – 5th Grades
Print & Digital
Reading & Social Studies
Magi CORE

Print & Digital Versions

BIG BAD PLASTIC

Plastic bags and to-go containers are convenient. They allow busy humans to carry things easily. If we don't limit our use of these handy products, however, our oceans will be in trouble. They could have more plastic in them than fish by the year 2050.

We produce about 300 million tons of plastic waste each year. About 8 million tons of that plastic ends up in the world's oceans annually. We may only use these plastic products briefly, then throw them away. Plastic waste can survive in the environment for centuries, though. In fact, it breaks down into deadly plastic microbeads. This makes plastic a huge problem for the health of our planet and all who live on it.



Over 40% of all seabirds have eaten plastic. Guess what? So have you. In just a week's time, it's possible that you've eaten about 5 grams of plastic. That is about the size of a credit card. How does this happen? A fish swimming in the ocean is exposed to plastic waste that has traveled from land to rivers to the ocean. That fish is caught and sold in a supermarket. You buy and eat that fish. The toxins in the plastic the fish has eaten pass from the fish to you. These toxins have been linked to causing diseases such as cancer.

Plastic kills about one million seabirds each year. One hundred thousand marine animals get tangled up with plastic waste and die. Land animals suffer from plastic pollution just as much. All of these creatures need to be protected from plastic that humans create and throw away. If we don't become more responsible with how we handle plastic, the number of animals and humans affected will only rise.

People need to do everything they can to reduce the amount of plastic that is produced. One of the best things to do is to refuse plastic as much as possible. Saying no to plastic products means th[illegible] have to be made in the first place. They won't end up becoming pollution if they are never created. Recycling plastic[illegible] Plastic can be made into other products. This gives the plastic a new [illegible] containers are yet another option. They might not be as convenient, [illegible]

Any way you look at it, plastic is a problem. It causes pollution[illegible] being such a villain. People just have to care enough to take action.



EXAMPLE ARGUMENT
in support of plastic use

TOPIC:
The use of plastic

STANCE (PRO/CON/OTHER):
PRO: in support of the use of plastic

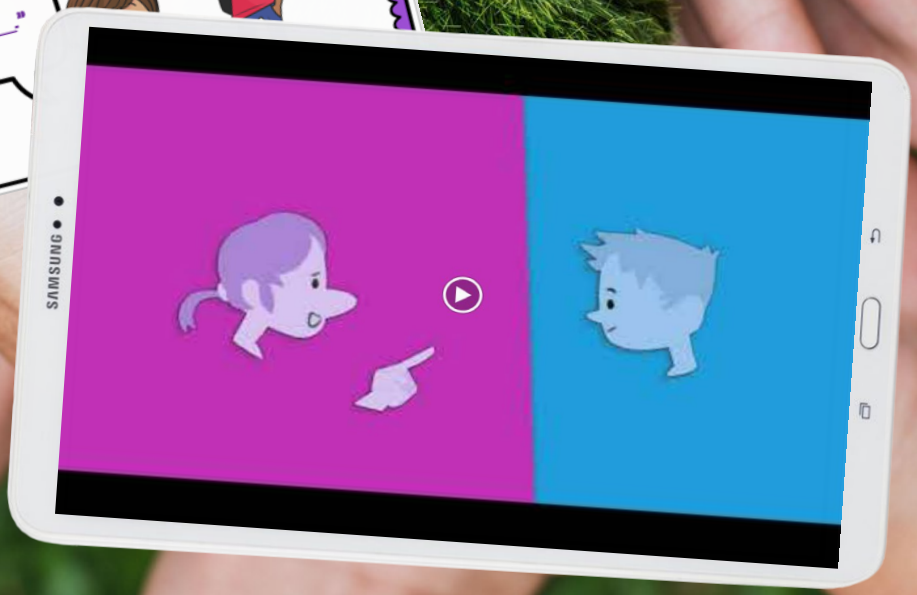
MAIN IDEA:
The use of plastic is positive in many ways because it can improve people's quality of life and help protect them. The use of plastic also has saved specific species of animals.

TALKING POINTS:

talking point #1:	specific evidence to support talking point #1:	OPPOSING VIEWS: opposing view #1:
Plastic is better than the alternative.	• Prior to the creation of plastic, natural materials such as elephant tusks were used to produce common objects. • Plastic has saved many elephants.	Plastic harms a lot of animals.

Original Video To Model a Debate



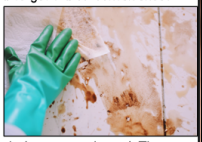




Multiple Passages for Students to Integrate Information from Multiple Texts

THE RIGHT TOOL

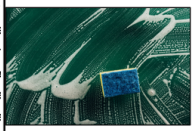
Climate change is on everyone's mind. Storms have grown fiercer. Temperatures have become more extreme. Ocean levels have risen. We've been warned that we need to take steps to reduce greenhouse gases in the air if we have any chance of fighting global warming. Living a greener life is a way to help. Does that mean we need to get rid of convenience?



One thing that makes our lives easier is using paper towels. They help us clean messes quickly. We've been encouraged, however, to stop using this product. It's been accused of being harmful to the environment. Other options have been presented, but they aren't better.

Take cloth towels and napkins, for example. They can be cleaned and reused. The energy and resources needed to wash them is a problem, though. Hot water, electricity, and detergent all cost money and have their own negative effects. Also, some microfiber cloths are made from petroleum-based polymers. Each time you wash these cloths, microplastics that never break down are released. They make their way into our water and pollute it. Paper towels, on the other hand, break down in 2-6 weeks in landfills, and they do not add microplastics to our water.

Another difficulty with using cloth towels is they are exposed to wet, humid conditions. They also absorb unpleasant substances when they are used to wipe up messes. This creates a breeding ground for nasty bacteria and mold. Without proper disinfecting, you could spread that bacteria and mold every time you swipe that dirty cloth along a surface. Sponges create the same problems. Illness could be caused by using infected cloths and sponges instead of paper towels.



Sometimes paper towels are just the right tool for the job. When it comes to cleaning up substances such as grease and oil, a paper towel is the way to go. A cloth towel would only become stained and have to be thrown away. It would take longer than a paper towel to break down in a landfill, too.

Paper towels aren't so horrible. They make our lives easier and more sanitary. There are worse causes of global warming and climate change than cleaning up spills with handy and germ-free paper towels. We need to focus our energy on solving the bigger problems.

©Gabi Bakke

It's a hot day. You're incredibl
can drink it, however, you accidental
towels to clean up the mess. When
But do they really go *away*?

Paper towels are a big conven
but they are actually making a bigge
like a problem, we have to consider
one ton of paper towels. This means
dioxide is pulled out of the air with
needed to make the number of pape
is that no one is planting all those ne
release more carbon dioxide into the

Another disadvantage of pape
break down fairly quickly in about 2



It tak
a gree
dioxid

Paper towels can be composted, but not if they are bleached or too soiled. In addition, paper towels aren't just made of wood pulp. They have chemicals, such as dyes, in them to make them white and sturdy. These chemicals are harmful to humans and the environment over time.

The good news is that we don't have to use paper towels. We have other choices that are healthier for the planet and humans. Cloth towels are cheap and convenient. They can be used, washed, and reused. Natural sea sponges are another possibility. One of these sponges can replace about 3,000 paper towel sheets! If you simply must use paper towels, try using ones that are unbleached or made from recycled paper. At the very least, make an effort to use fewer paper towels overall.

©Gabi Bakke

More and more people
happening. Glaciers are melt
atmosphere cause global wa
is to stop eating meat, but t

There are bigger proc
Transportation causes 27%
caused by making energy. G
pigs to eat, however, is only
animals for food. You'd be b
steak dinner.

In the past, beef proc
production is friendlier to th
forests and the wildlife livin
water to make one pound o



does
oxide
with fewer cows. That means less methane, another greenhouse gas, is being produced. Improvements in breeding and nutrition make this possible.

Studies show avoiding meat altogether isn't the answer. Moving to other kinds of diets may do more harm than good. Cattle, sheep, and goat meat make greenhouse gas, but so do dairy products. Any major changes in how we eat could also keep our bodies from getting what they need to stay as healthy as possible. This could cause illnesses.

A better idea would be to decrease the amount of red meat we eat, but not quit it completely. You don't have to stop being a carnivore to save the planet.

©Gabi Bakke

Global warming is
Making just one hambur
billion hamburgers each
gas than foods such as
hamburgers is to stop e

Raising animals suc
Large pieces of clearec
animals. About 260 milli
purposes. The loss of tr
becoming endangered o
the air. More carbon dio
clear this land. This rele

These animals also
meat. Producing wheat,



plant-based options nowadays. Food companies have developed products that look like meat. They are made from plants instead and often taste as good as real red meat.

Humans must make better decisions. We need to eat things that don't further harm our planet. Saying no to meat will allow us to say yes to fighting global warming.

©Gabi Bakke

Graphic Organizers

name: date:

RESEARCH ORGANIZER

Topic:

Benefits or positive effects of this specific topic:

Disadvantages or negative effects of this specific topic:

...om reliable sources. Gather evidence, not opinions.

EXAMPLE ARGUMENT
opposed to the use of plastic

TOPIC:
The use of plastic

STANCE (PRO/CON/OTHER):
CON- opposed to the use of plastic

MAIN IDEA:
The use of plastic is harmful to the environment, animals, and humans. In order to decrease the production of plastic, we need to refuse to use it.

TALKING POINTS:

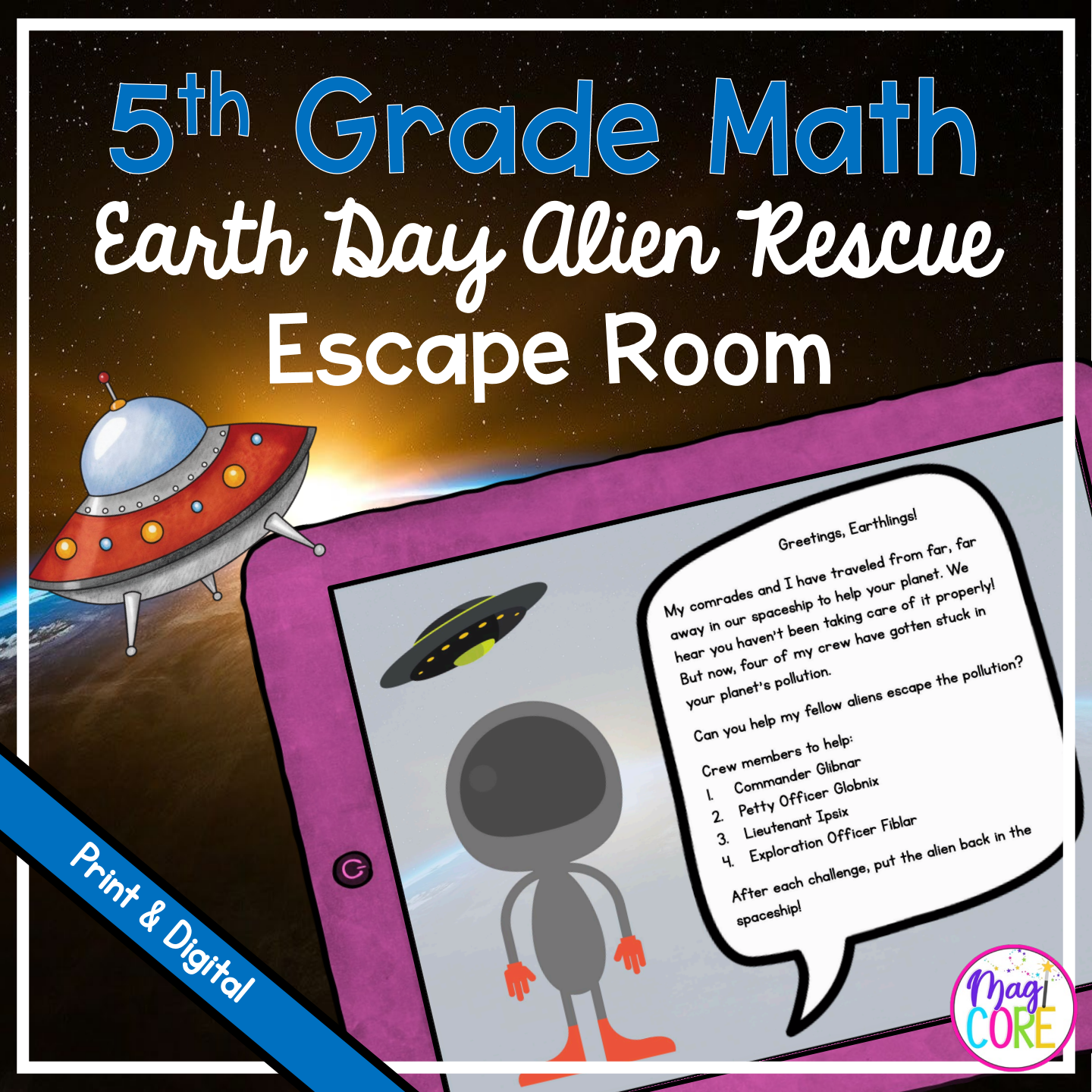
talking point #1:	specific evidence to support talking point #1:	OPPOSING VIEWS: opposing view #1:
Plastic negatively impacts the environment.	• 8 million tons of plastic end up in oceans every single year. • Plastic survives in the environment for hundreds of years and doesn't decompose.	



5th Grade Math

Earth Day Alien Rescue

Escape Room



Print & Digital

MagiCORE

Print & Digital Options

Printable Directions



Materials:

- Printed cards for each team
- Computer or Tablet for Videos (optional)
- Scrap Paper (optional)

Duration: Approximately 90 minutes. You can also split this up int to 30-minute activities over four days, having students complete one challeng

Prep: Print challenge cards and recording sheets for each te envelopes.

Directions:

1. Split your class into teams of 4-5 students. Ensure tea
2. (Optional) Show the introduction video.
3. Give each team their envelope for challenge #1.
4. Allow time for each team to work through each ch should turn the code in to the teacher to check befo challenge. (Optional) Teacher may show completion
5. The first team to complete all four challenges certificates.
6. Assign "oops" cards to help create equity. G lead, to encourage them to step back and give

Digital Directions



Materials:

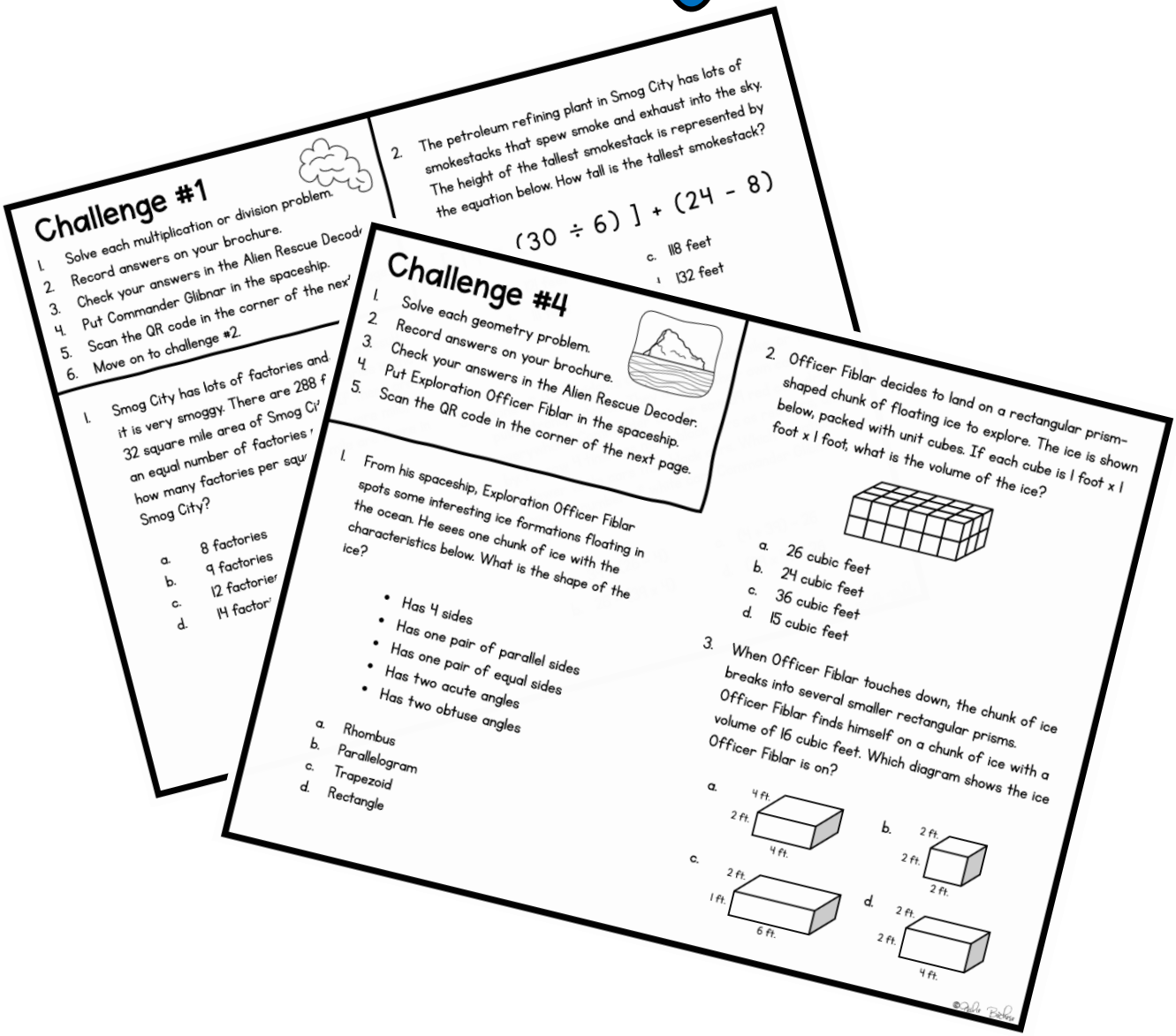
- Google Slides link for each student
- Google Sheets link for each student

Duration: Approximately two sixty-minute sessions. You can also this up into four 20-minute activities, having students complete challenge per day.

Directions

Assign your students the Google Slides and Google Sheets Digital Room challenge. Students work through each challenge in the slide Students input their code into the Google Sheet to self-check the answers. The Google Sheet will prompt students to check their wo move forward to the next challenge. Complete all four challenges to receive your Escape from the Castle Certificate.

Print Friendly Version



Challenge #1

1. Solve each multiplication or division problem.
2. Record answers on your brochure.
3. Check your answers in the Alien Rescue Decoder.
4. Put Commander Glibnar in the spaceship.
5. Scan the QR code in the corner of the next
6. Move on to challenge #2.

1. Smog City has lots of factories and
it is very smoggy. There are 288 f
32 square mile area of Smog Ci
an equal number of factories
how many factories per squ
Smog City?

a. 8 factories
b. 9 factories
c. 12 factorie
d. 14 factor

2. The petroleum refining plant in Smog City has lots of smokestacks that spew smoke and exhaust into the sky. The height of the tallest smokestack is represented by the equation below. How tall is the tallest smokestack?

(30 ÷ 6)] + (24 - 8)

c. 118 feet
d. 132 feet

Challenge #4

1. Solve each geometry problem.
2. Record answers on your brochure.
3. Check your answers in the Alien Rescue Decoder.
4. Put Exploration Officer Fiblar in the spaceship.
5. Scan the QR code in the corner of the next page.

1. From his spaceship, Exploration Officer Fiblar spots some interesting ice formations floating in the ocean. He sees one chunk of ice with the characteristics below. What is the shape of the ice?

- Has 4 sides
- Has one pair of parallel sides
- Has one pair of equal sides
- Has two acute angles
- Has two obtuse angles

a. Rhombus
b. Parallelogram
c. Trapezoid
d. Rectangle

2. Officer Fiblar decides to land on a rectangular prism-shaped chunk of floating ice to explore. The ice is shown below, packed with unit cubes. If each cube is 1 foot x 1 foot x 1 foot, what is the volume of the ice?

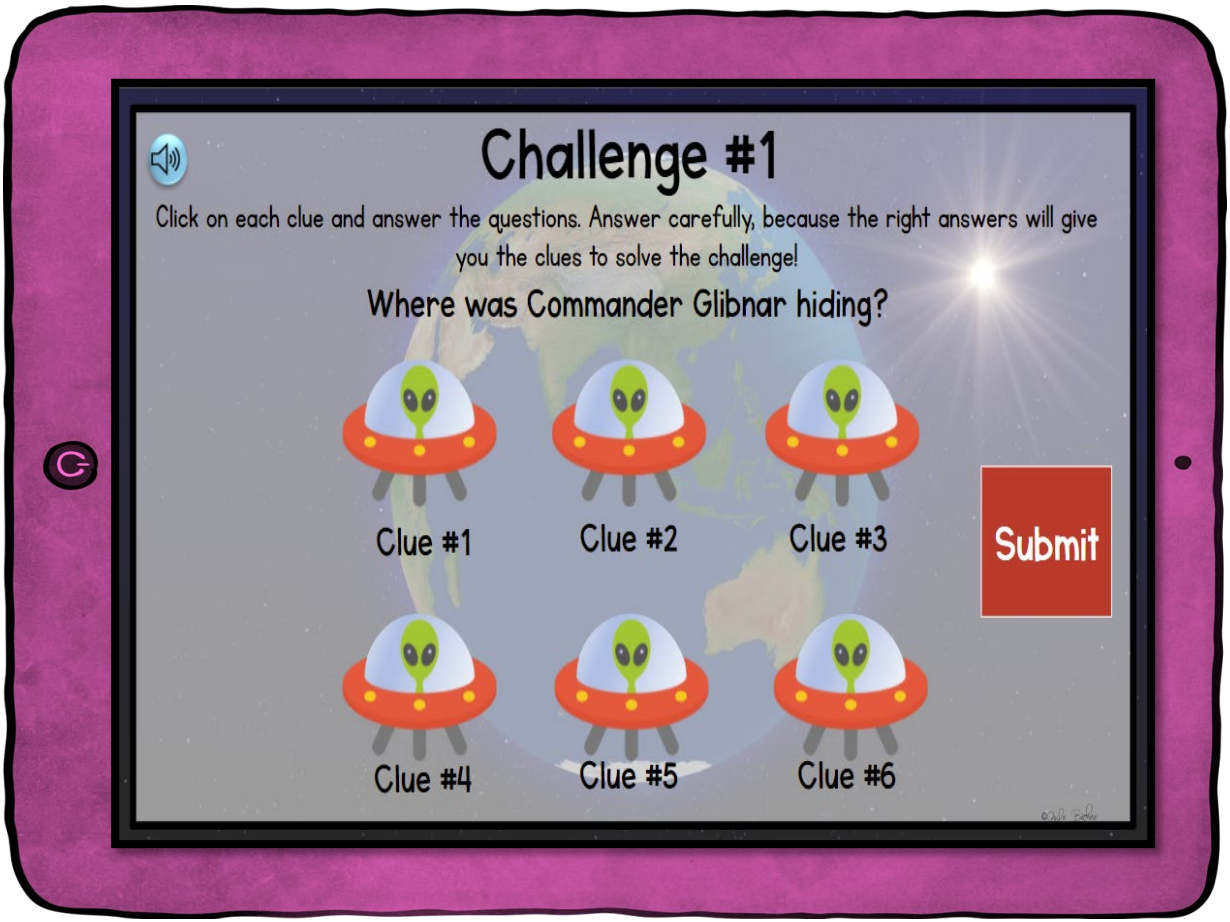
a. 26 cubic feet
b. 24 cubic feet
c. 36 cubic feet
d. 15 cubic feet

3. When Officer Fiblar touches down, the chunk of ice breaks into several smaller rectangular prisms. Officer Fiblar finds himself on a chunk of ice with a volume of 16 cubic feet. Which diagram shows the ice Officer Fiblar is on?

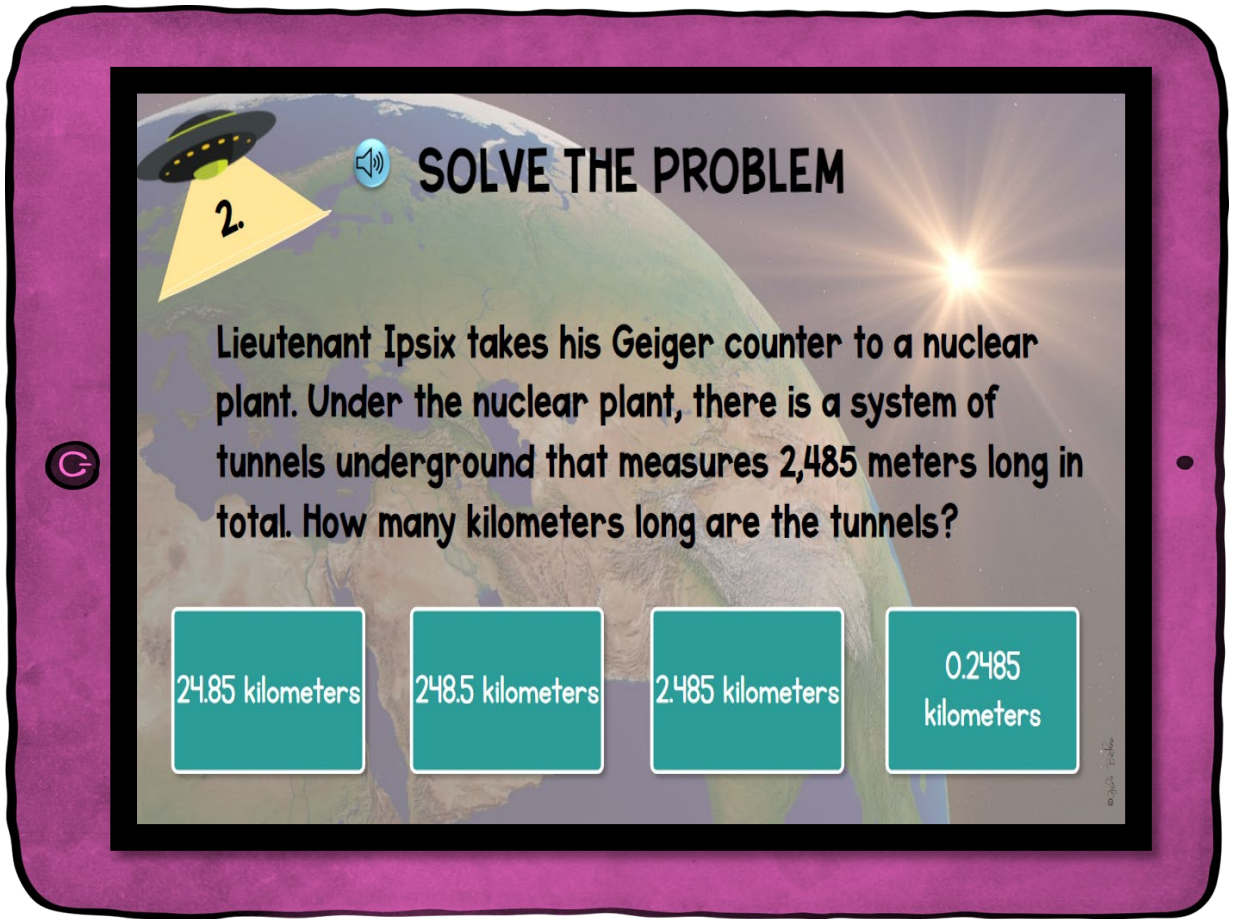
a. 4 ft., 2 ft., 4 ft.
b. 2 ft., 2 ft., 2 ft.
c. 2 ft., 1 ft., 6 ft.
d. 2 ft., 2 ft., 4 ft.

©Julie Parker

Digital Webscape™ & Google Slides



Webscape™ is Interactive & Self-Correcting!



Webscape™ Includes Audio Option!



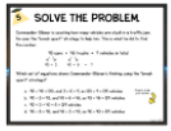
Videos Tell the Story



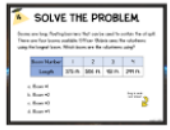
4 Standards-Based Math Challenges

EARTH DAY ALIEN RESCUE

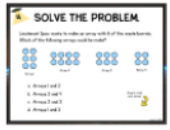
1. Challenge #1: Solve the addition and subtraction problems to save Commander Glibnar.



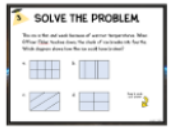
2. Challenge #2: Solve the place value problems to help Petty Officer Globnix.



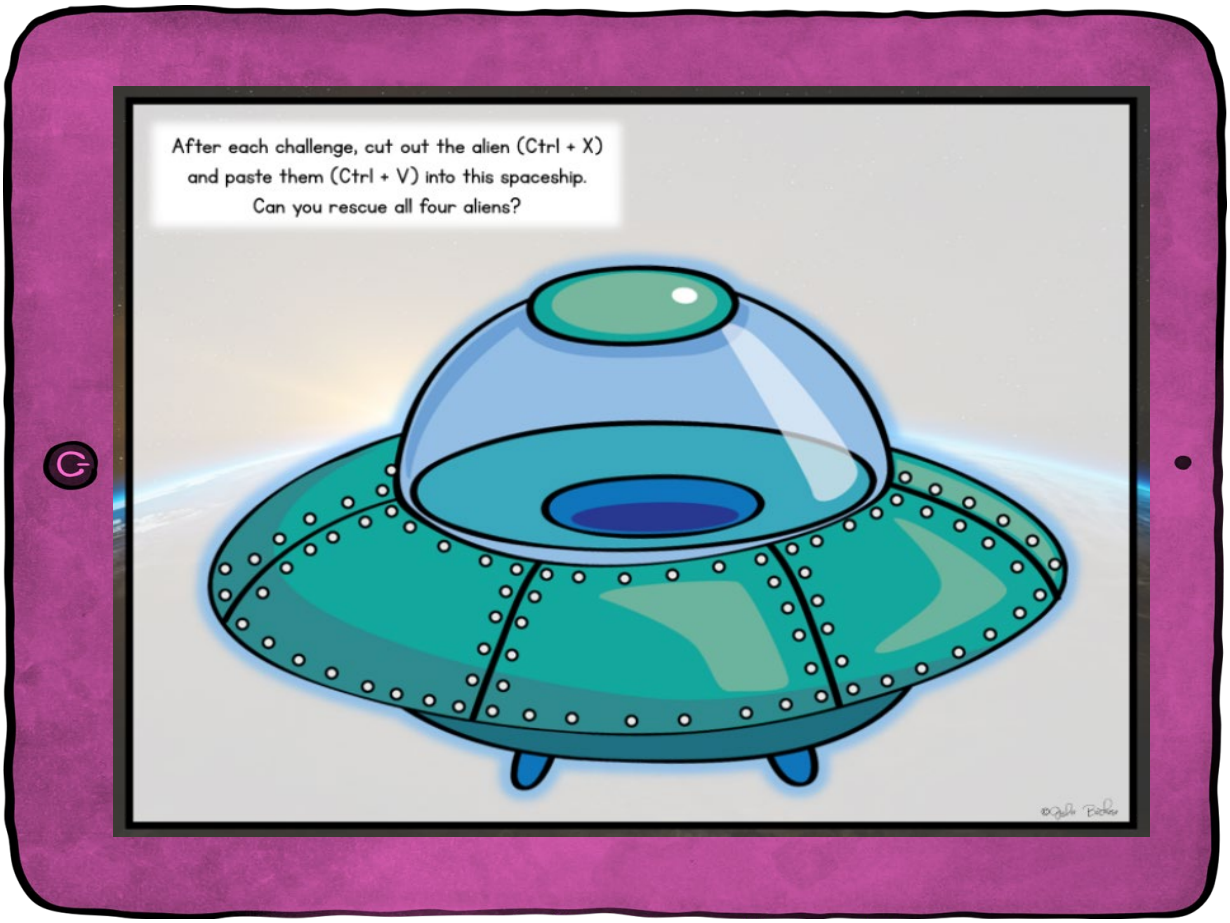
3. Challenge #3: Solve the problems with arrays to evacuate Lieutenant Ipsix.



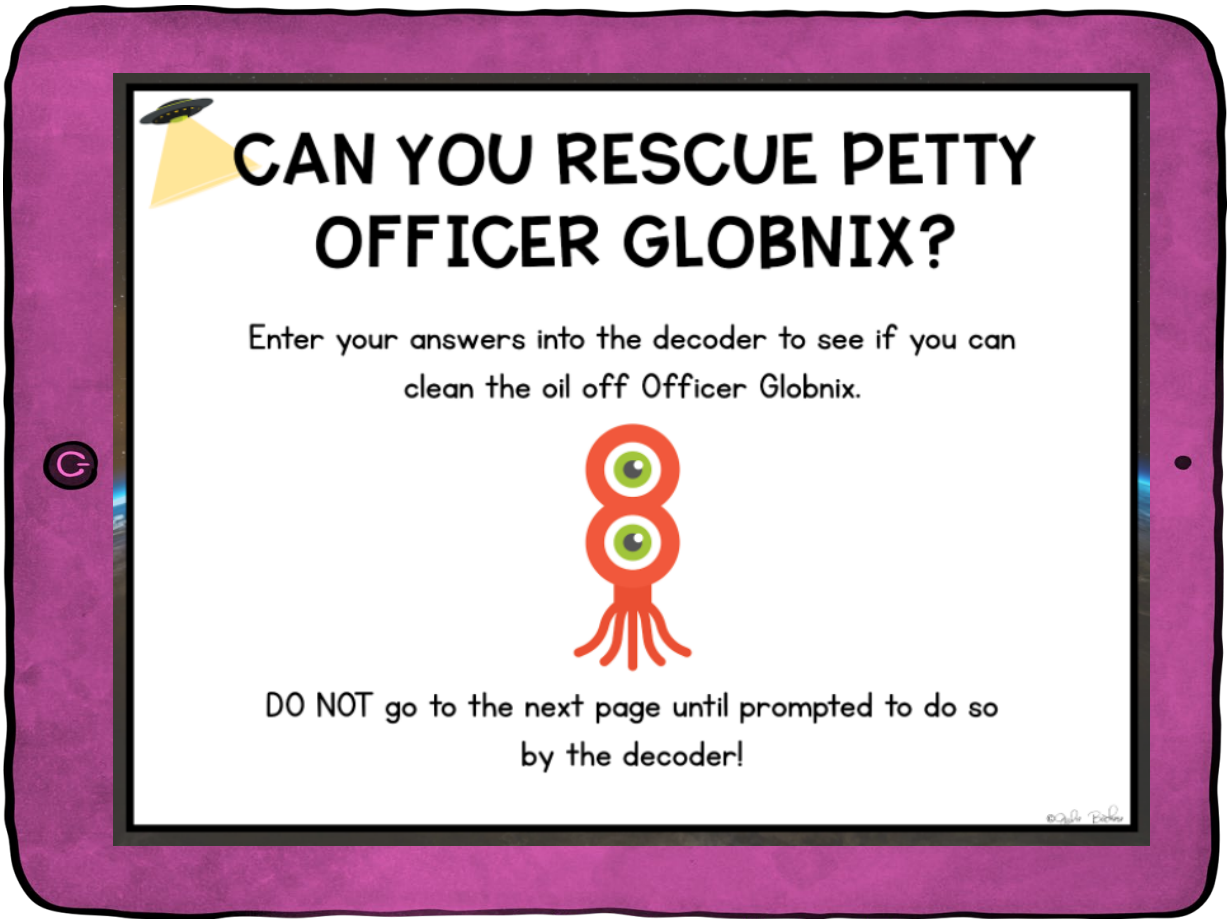
4. Challenge #4: Solve the geometry problems to rescue Exploration Officer Fiblar.



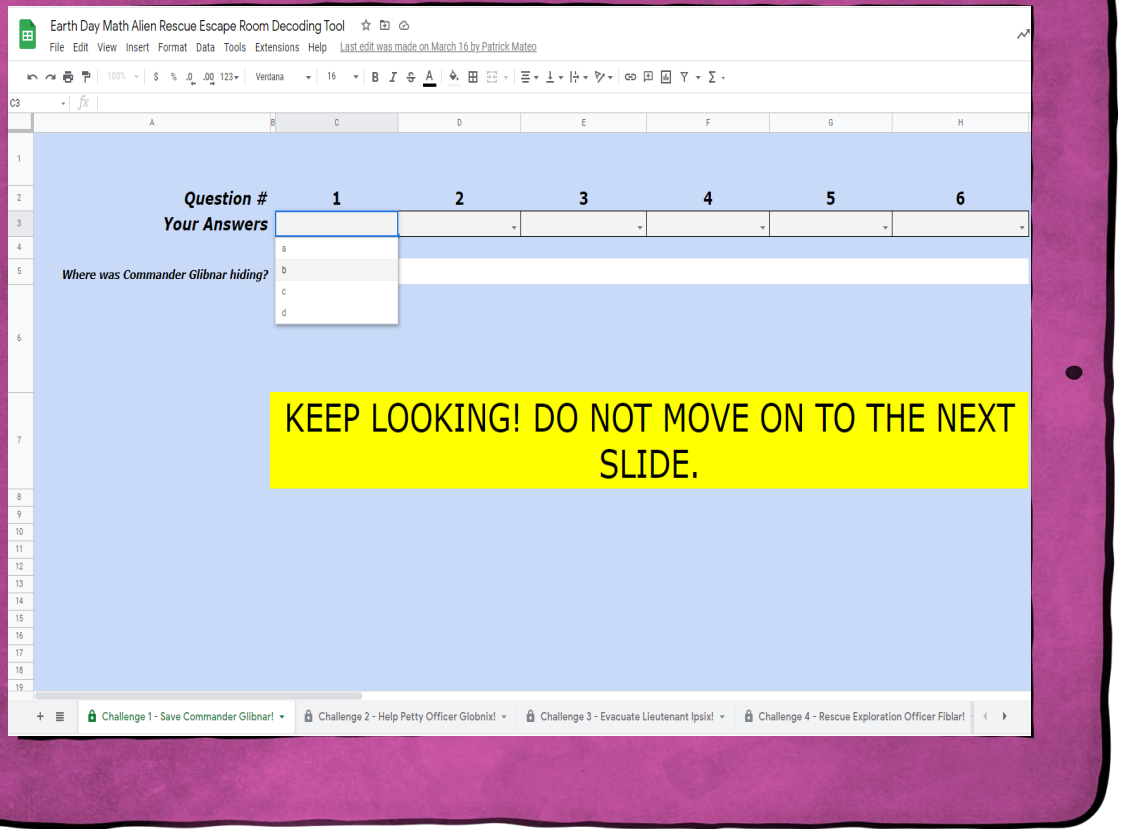
Interactive



Google Slides Prompt Students to use Decoder



Decoder in Digital Version is Self-Checking



Printable Version Includes "Ooops!" Challenges



Printable Version Includes Recording Brochure & Decoder

