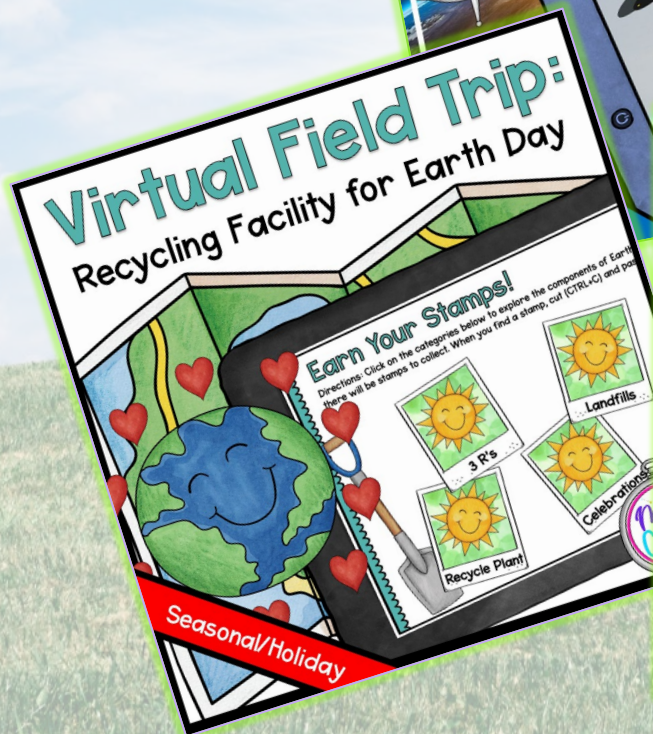
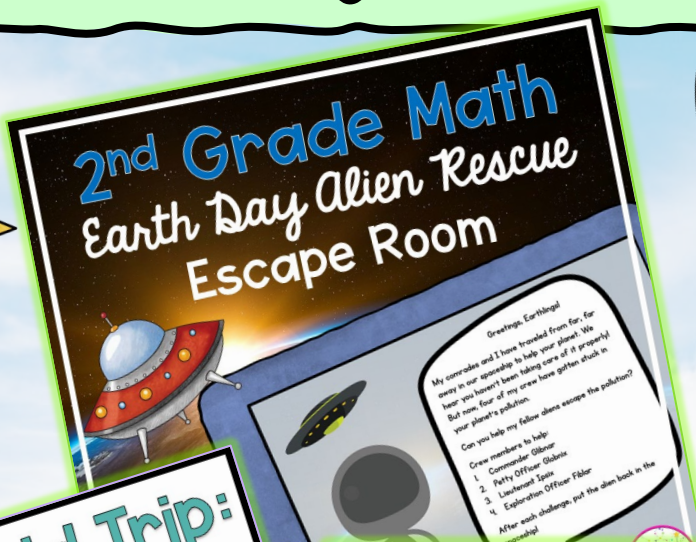
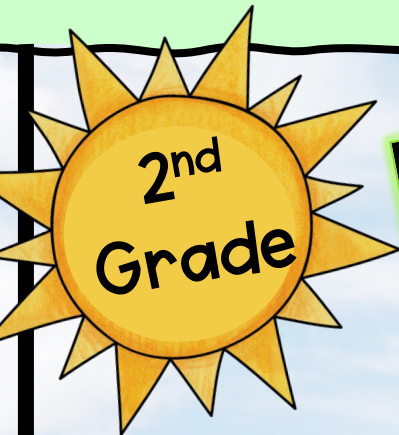


Earth Day Bundle



Save the Planet

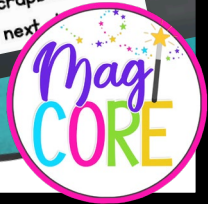
Reasons Support Points Escape Room

2nd _ 3rd
Grade

Print and Digital



Cut and paste the globe and place it
in your environmental scrapbook.
Then, continue to your next



Print & Digital Options

Printable Directions



Materials:

- Printed cards for each team
- Computer or tablet for videos (optional)

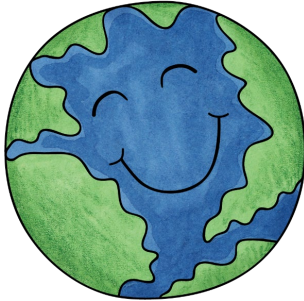
Duration: Approximately 90 minutes. You can also split this up into four 20- to 30-minute activities over four days, having students complete one challenge per day.

Prep

Print challenge cards and recording sheet for each team. Place challenge cards into envelopes.

Directions

1. Split your class into teams of 4-5 students. Ensure teams are multi-level.
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 challenge. Once they solve the challenge, record answers in their brochure. Then, turn the code in to the teacher to check before assigning the consecutive challenge. (Optional) Teacher may show completion videos after solved. Students can scan the video using the provided QR codes.
5. The first team to complete all four challenges wins the save the planet challenge.
6. Assign "oops" cards to help create equity. Give an "oops" card to students who are encourage them to step back and give other students a turn.



Digital Instructions

Click on the **BLUE** recycle symbol to access the Google Slides version of this resource.



Click on the **PINK** recycle symbol to access the Planet Saver Decoder to use in Google Sheets.



Click on the **GREEN** recycle symbol to watch a video to see how to use the digital version of this resource.



©2020 T. G. H.

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.

©Julie Baker

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 how reasons support an author's point. Collect the conservation badge to help protect your favorite animal species.

Short Passages

1.

Reasons Support Points

Being car-free is for those who would like to see cars used less in cities. This movement is backed by those who would like to see different ways of moving people. This is important for the environment. It is also important for our quality of life. People who want to be car-free encourage walking, cycling, or the use of public transportation. This is a movement we can all easily do. If we all let go of just one car ride a week, we could decrease air pollutants from vehicles. So, next time you need a ride, grab your bike!



What is the author's main point?

- a. Everyone should be car-free.
- b. The car-free movement helps with air pollution.
- c. Vehicles, bikes, and buses all add to air pollution.
- d. Being car-free is the best way to help the environment.

Long Passages

Reasons Support Points

Climate change is the difference in the Earth's climate over time. The change can be warmer (global warming) or colder (global cooling). These changes can be caused by activity inside the Earth or human activity. These changes may take tens, hundreds, or perhaps millions of years. Earth is currently experiencing a climate change crisis. It will cripple some of its most important living species.

Earth's ocean animals have experienced change due to global warming. Heat waves in the ocean are more frequent, due to climate change. Plants and animals in the ocean have been forced to migrate towards the colder poles. This has had harmful effects on corals, kelp, and seabirds. Harmful algae bloom has increased due to climate change. This algae has disrupted food webs. Coastal ecosystems are also under stress. Almost half of Earth's wetlands have disappeared. This is an effect of climate change and other human impacts.



©Julie Bochesse

Google Slides Prompt Students to use Decoder



Conservation Badge

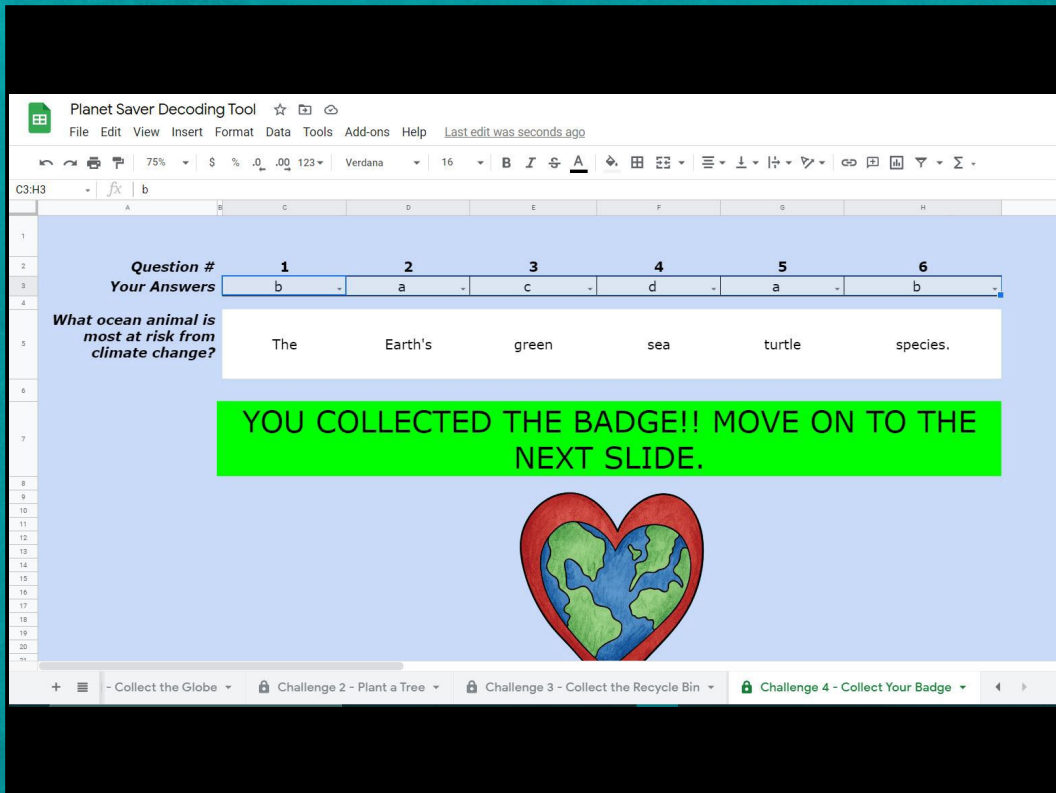
Enter your answers in the Secret Decoder to collect your badge and discover which ocean animal is most at risk from climate change.



DO NOT go to the next page until prompted to do so by the Decoder!

©Julie Becker

Decoder in Digital Version is Self-Checking



Interactive Elements

Cut and paste the conservation badge and place it in your environmental scrapbook. Then, continue to your next challenge.



Printable Version Includes "Ooops!" Challenges

Ooops!

You are caught in the rain!



NO HELPING YOUR
TEAM FOR 3 MINUTES!

Ooops!

You forgot to turn off the electricity
when you were done using it.



NO USING YOUR EYES FOR 5
MINUTES!

Printable Version

Includes Recording

Brochure & Decoder

CHALLENGE 1



	Answer	Code
1.		
2.		
3.		
4.		
5.		
6.		

How can we slow the effects of climate change?

CHALLENGE 2

	Answer	Code
1.		
2.		
3.		
4.		
5.		
6.		

Who relies on the Amazon Rainforest?



CHALLENGE 3



	Answer	Code
1.		
2.		
3.		
4.		
5.		
6.		

What can you do to reduce your use of plastics?

Secret Decoder

following codes for each challenge to unlock the secret item and move to the next challenge.

	Question 1	Question 2	Question 3	Question 4	Question 5	Question 6
Challenge 1	a = There b = We c = The d = On	a = must b = it c = should d = can	a = shovel b = help c = ride d = garden	a = the b = empty c = our d = recycle	a = bikes b = of c = planet d = landfill	a = always b = more c = plastic d = helpful
Challenge 2	a = Only b = The c = All d = On	a = biggest b = living c = endangered d = the	a = species b = habitats c = plants d = animals	a = a b = of c = on d = with	a = the b = planet c = tree d = our	a = Earth b = helped c = planet d = rainforest
Challenge 3	a = Help b = Begin c = Recycle d = Start	a = helping b = being c = using d = loving	a = the b = a c = your d = our	a = reusable b = recyclable c = plastic d = metal	a = air b = trash c = bottle d = water	a = can b = bottle c = heart d = landfill
Challenge 4	a = Earth's b = The c = A d = Our	a = Earth's b = planet c = Pacific d = blue	a = whale b = coral c = green d = ocean	a = of b = algae c = spores d = sea	a = turtle b = deep c = shark d = of	a = planet b = species c = sea d = endangered

Virtual Field Trip:

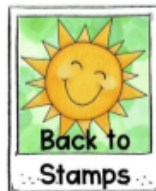
Recycling Facility for Earth Day



STEAM

Create Your Own Recycled

Click and drag the pictures to create a piece of recycled art.



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.

What is slurry?



Click
more

Call to Action!

The 3R's: Reduce, Reuse And Recycle

Directions: Read the fast facts about the 3R's. Click and drag the icons to label statements as true or false.

Reduce:

- Don't use it unless you need it! This helps eliminate waste.
- Try to use items that are made from recycled materials.

Reuse:

- Look to repurpose any items that are still useable for something else. For example, shred used paper to make a nest for small pets like hamsters.

Recycle:

- If an item can be broken down and changed into a new item, put it in the recycle bin.
- Items like plastic, glass, paper, and metal are recyclable.

- It is not wasteful to use a small part of a piece and then throw it away.
- I can put anything in the recycle bin. All items are recyclable.
- Paper can be shredded and used as bedding for pets like hamsters.
- Plastic, glass and metal are recyclable.

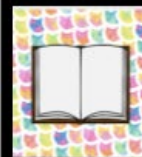
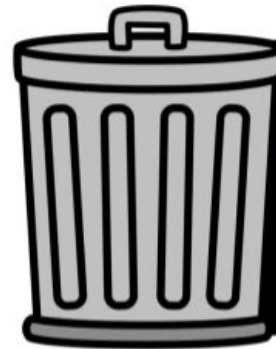
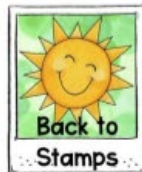
Fast Facts



Engaging & Educational Media

Sort-It!

Directions: Watch the video below and sort the items as recycle



Critical Thinking Skills

Recycle Vs. Landfill

Complete the graphic organizer by listing the main differences between recycling and using a landfill.



Share the Differences

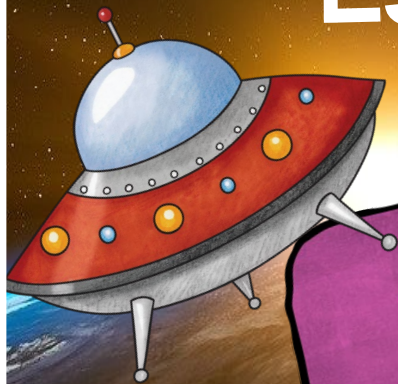
Recycling

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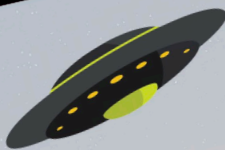
2nd Grade Math

Earth Day Alien Rescue

Escape Room



Print & Digital



Greetings, Earthlings!

My comrades and I have traveled from far, far away in our spaceship to help your planet. We hear you haven't been taking care of it properly! But now, four of my crew have gotten stuck in your planet's pollution.

Can you help my fellow aliens escape the pollution?

Crew members to help:

1. Commander Glibnar
2. Petty Officer Globnix
3. Lieutenant Ipsix
4. Exploration Officer Fibrar

After each challenge, put the alien back in the spaceship!



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 activities over four days, having students complete one activity per day.

Prep: Print challenge cards and recording sheets for each team.

Directions:

1. Split your class into teams of 4-5 students. Each team will have a recording sheet.
2. (Optional) Show the introduction video.
3. Give each team their envelope for challenge cards.
4. Allow time for each team to work through the challenge cards. The teacher should turn the code in to the teacher to check the challenge. (Optional) Teacher may show challenge cards to the class.
5. The first team to complete all four challenge cards will receive certificates.
6. Assign "oops" cards to help create a fun atmosphere, to encourage them to step back and try again.



30-minute

CHALLENGE #1



1. Solve the addition and subtraction problems.

2. If you solve all the problems correctly, you will receive a certificate.

I'm Ready!

3. Put Commander Glibnar back in his spaceship and move on to the next challenge.



Print Friendly Version

Challenge #1

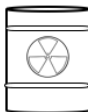


1. Solve each addition or subtraction problem.
2. Record answers on your brochure.
3. Check your answers in the Alien Rescue Decoder.
4. Put Commander Glibnar in the spaceship.
5. Scan the QR code in the corner of the next page.
6. Move on to challenge #2.

2. The highest smokestack in Smog City is 230 feet high. The shortest smokestack is 78 feet high. How much taller is the highest smokestack than the shortest?

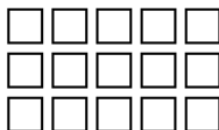
- a. 252 feet
- b. 152 feet
- c. 308 feet
- d. 262 feet

Challenge #3



1. Solve each problem with arrays.
2. Record answers on your brochure.
3. Check your answers in the Alien Rescue Decoder.
4. Put Lieutenant Ipsix in the spaceship.
5. Scan the QR code in the corner of the next page.
6. Move on to challenge #4.

1. Lieutenant Ipsix finds a box of Geiger counters on the spaceship. A Geiger counter is a handheld device that measures radiation. The counters are arranged into an array as shown below. Which addition equation represents the array?



- a. $3 + 3 + 3 + 3 + 3$
- b. $3 + 5$
- c. $5 + 5 + 5 + 5 + 5$
- d. $3 + 3 + 3$

2. Lieutenant Ipsix takes his Geiger counter to a nuclear plant. On the ground, there are 9 manhole covers that lead to underground tunnels. Which array shows how the manhole covers might be arranged?



3. Inside one of the tunnels, Lieutenant Ipsix finds a stash of nuclear waste barrels. The barrels are arranged into four rows and five columns. How many barrels did he find? Draw an array to help you solve.

- a. 9 barrels
- b. 20 barrels
- c. 16 barrels
- d. 15 barrels

Digital Webscape™ & Google Slides



Challenge #1

Click on each clue and answer the questions. Answer carefully, because the right answers will give you the clues to solve the challenge!

Where was Commander Glibnar hiding?



Clue #1



Clue #2



Clue #3



Clue #4



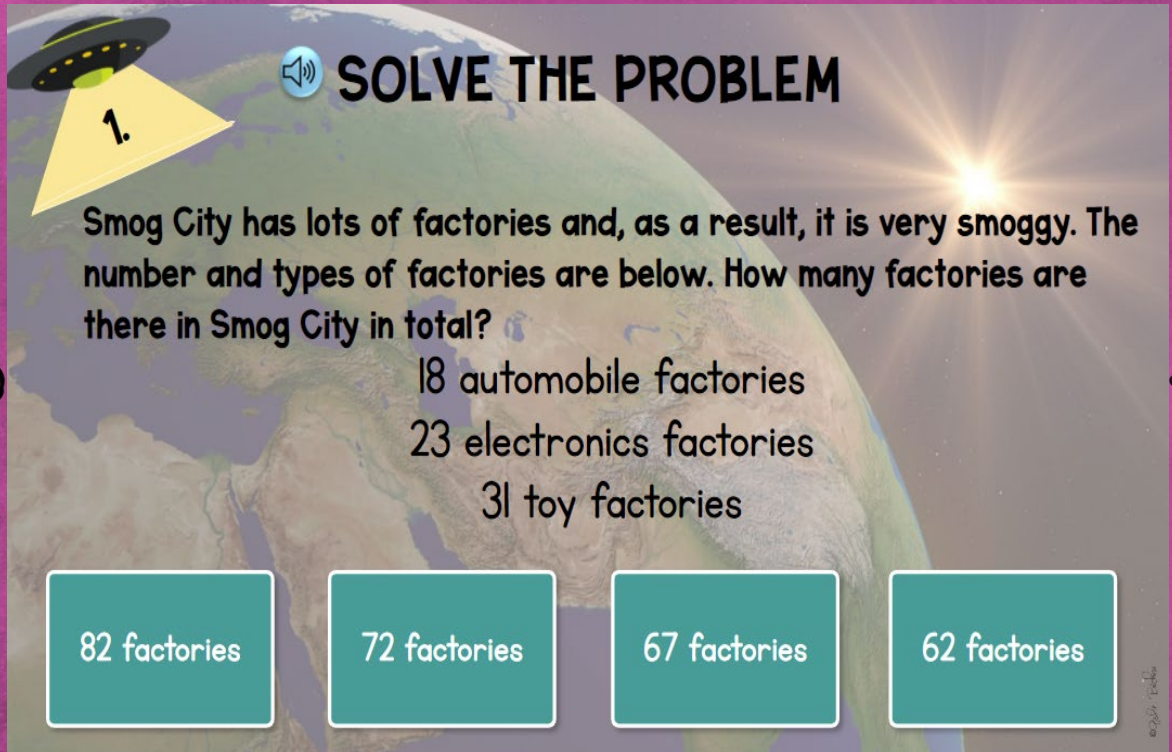
Clue #5



Clue #6

Submit

Webscape™ is Interactive & Self-Correcting!



The interface is set against a background of a globe with a bright sun in the upper right. A yellow cone with the number '1.' is on the left, and a speaker icon is next to the title. The problem text is in the center, followed by a list of factory counts. At the bottom, there are four teal buttons with different answers.

1. SOLVE THE PROBLEM

Smog City has lots of factories and, as a result, it is very smoggy. The number and types of factories are below. How many factories are there in Smog City in total?

- 18 automobile factories
- 23 electronics factories
- 31 toy factories

82 factories 72 factories 67 factories 62 factories

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.

SOLVE THE PROBLEM

Read the problem carefully. Write your answer on the lines provided. Show your work on the back of the page.

Commander Glibnar is 7 feet tall. He is 2 feet taller than Petty Officer Globnix. How tall is Petty Officer Globnix?

$7 - 2 =$

a. 9 feet
b. 5 feet
c. 4 feet
d. 3 feet

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

SOLVE THE PROBLEM

Read the problem carefully. Write your answer on the lines provided. Show your work on the back of the page.

Petty Officer Globnix has 1,234 blocks. He has 567 blocks left. How many blocks did he use?

a. 667
b. 666
c. 665
d. 664

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

SOLVE THE PROBLEM

Read the problem carefully. Write your answer on the lines provided. Show your work on the back of the page.

Lieutenant Ipsix has 24 blocks. He has 6 blocks in each row. How many rows are there?

a. 4 rows
b. 3 rows
c. 2 rows
d. 1 row

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

SOLVE THE PROBLEM

Read the problem carefully. Write your answer on the lines provided. Show your work on the back of the page.

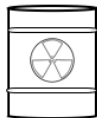
Exploration Officer Fiblar has a rectangle that is 4 units long and 3 units wide. What is the perimeter of the rectangle?

a. 14 units
b. 12 units
c. 10 units
d. 8 units

©2016 Bobbs

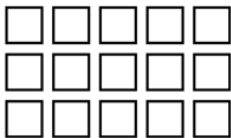
Challenges are Quick

Challenge #3



1. Solve each problem with arrays.
2. Record answers on your brochure.
3. Check your answers in the Alien Rescue Decoder.
4. Put Lieutenant Ipsix in the spaceship.
5. Scan the QR code in the corner of the next page.
6. Move on to challenge #4.

1. Lieutenant Ipsix finds a box of Geiger counters on the spaceship. A Geiger counter is a handheld device that measures radiation. The counters are arranged into an array as shown below. Which addition equation represents the array?



- a. $3 + 3 + 3 + 3 + 3$
- b. $3 + 5$
- c. $5 + 5 + 5 + 5 + 5$
- d. $3 + 3 + 3$

2. Lieutenant Ipsix takes his Geiger counter to a nuclear plant. On the ground, there are 9 manhole covers that lead to underground tunnels. Which array shows how the manhole covers might be arranged?

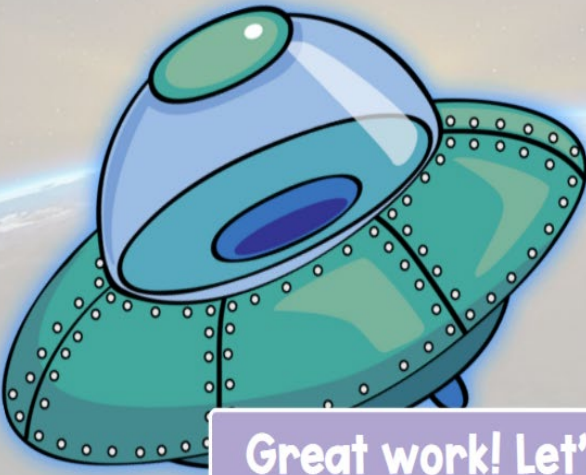
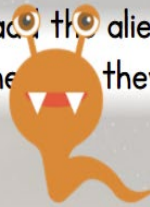


3. Inside one of the tunnels, Lieutenant Ipsix finds a stash of nuclear waste barrels. The barrels are arranged into four rows and five columns. How many barrels did he find? Draw an array to help you solve.

- a. 9 barrels
- b. 20 barrels
- c. 16 barrels
- d. 15 barrels

Interactive

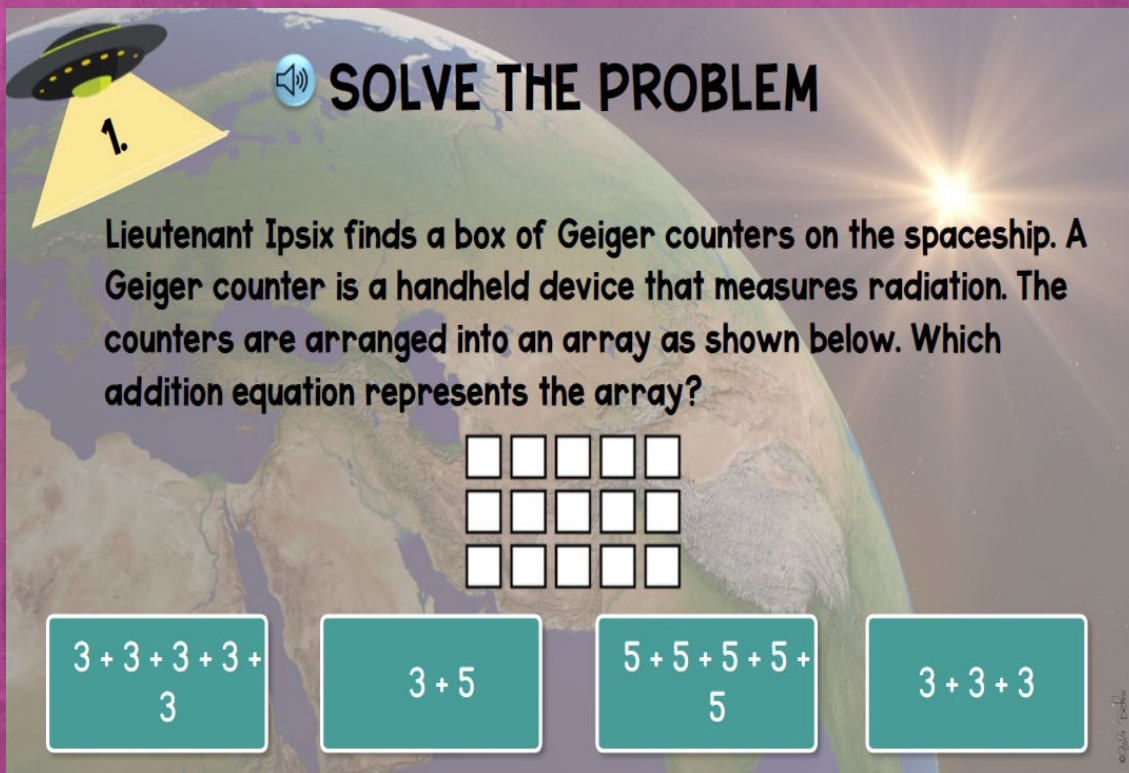
Collect each alien. After each challenge, add the alien into the spaceship.
Once all the aliens are safely back on the spaceship, they can return home!



Click the spaceship
to collect your alien!

Great work! Let's keep going!

Variety of Skills



1.

 **SOLVE THE PROBLEM**

Lieutenant Ipsix finds a box of Geiger counters on the spaceship. A Geiger counter is a handheld device that measures radiation. The counters are arranged into an array as shown below. Which addition equation represents the array?

$3 + 3 + 3 + 3 + 3$

$3 + 5$

$5 + 5 + 5 + 5 + 5$

$3 + 3 + 3$

©2014 Teacher

Google Slides Prompt Students to use Decoder



CAN YOU RESCUE PETTY OFFICER GLOBNIX?

Enter your answers into the decoder to see if you can
clean the oil off Officer Globnix.



DO NOT go to the next page until prompted to do so
by the decoder!

©2016 Fisher

Decoder in Digital Version is Self-Checking

Earth Day Math Alien Rescue Escape Room Decoding Tool

File Edit View Insert Format Data Tools Extensions Help Last edit was made on March 16 by Patrick Mateo

100% 123 Verdana 16 B I A

Question #	1	2	3	4	5	6
Your Answers						
Where was Commander Glibnar hiding?	a b c d					

KEEP LOOKING! DO NOT MOVE ON TO THE NEXT SLIDE.

Challenge 1 - Save Commander Glibnar! Challenge 2 - Help Petty Officer Globnxi! Challenge 3 - Evacuate Lieutenant Ipsix! Challenge 4 - Rescue Exploration Officer Fiblar!

Printable Version

Includes "Ooops!"

Challenges



Printable Version

Includes Recording

Brochure & Decoder

 **Alien Rescue Decoder** 

Use the following codes for each challenge to solve the clues and move to the next challenge.

Challenge 1	question 1	question 2	question 3	question 4	question 5	question 6
a = We were b = He was c = He had d = There was	a = going b = hiding c = into d = called	a = near b = because c = among d = underneath	a = when the b = smokesack c = pollution d = a pile	a = of old b = to his c = when the d = since	a = factory b = spaceship c = times d = window	
a = He was b = With a c = First you d = Not until	a = water b = cleaning c = him d = toothbrush	a = dish soap b = volunteer c = oil spill d = walks	a = because b = and c = washing d = but then	a = a little b = sometimes c = lots of d = he goes	a = all for b = on it c = bar d = at	
a = Beam b = Send c = Take him d = Before you	a = waste barrel b = in the c = him d = tunnel	a = take b = up c = because d = until	a = underground b = radioactive c = chasing d = into	a = the b = eat c = help him d = running		
a = Take him b = Quickly c = Throw him d = The water	a = cold b = icy c = a pool float d = polar bear	a = until b = rectangle c = because I d = so he	a = afterwards b = can c = float d = breaks apart	a = tower b = first c = on it d = at		

CHALLENGE 1 

	Answer	Code
1.		
2.		
3.		
4.		
5.		
6.		

CHALLENGE 2

	Answer	Code
1.		
2.		
3.		
4.		
5.		
6.		

How can you clean all the oil off Petty Officer Globnix?

Where was Commander Glibnar hiding?



CHALLENGE 3 

	Answer	Code
1.		
2.		
3.		
4.		
5.		
6.		

How can you help Lieutenant Ipsix escape from the nuclear plant?