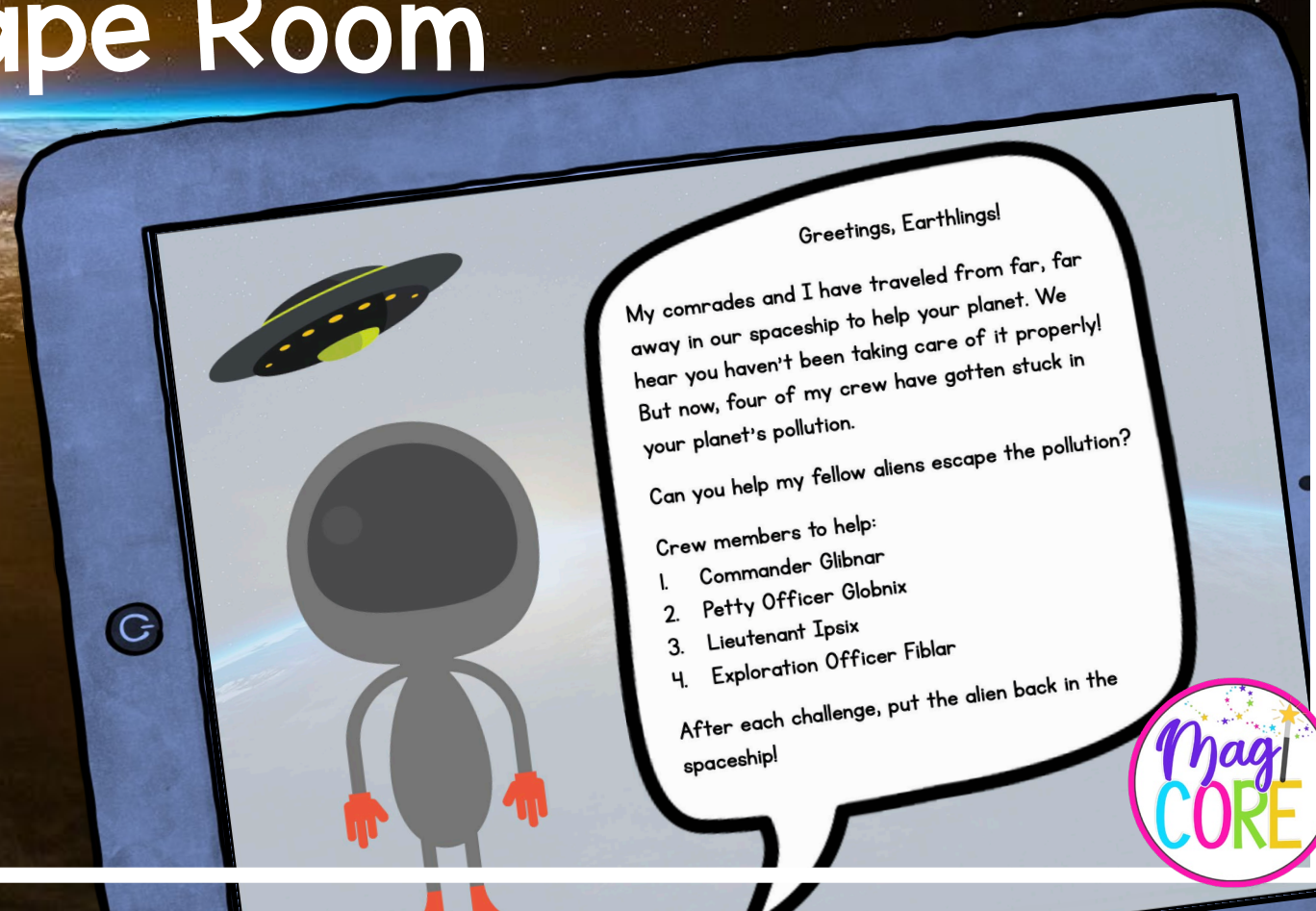
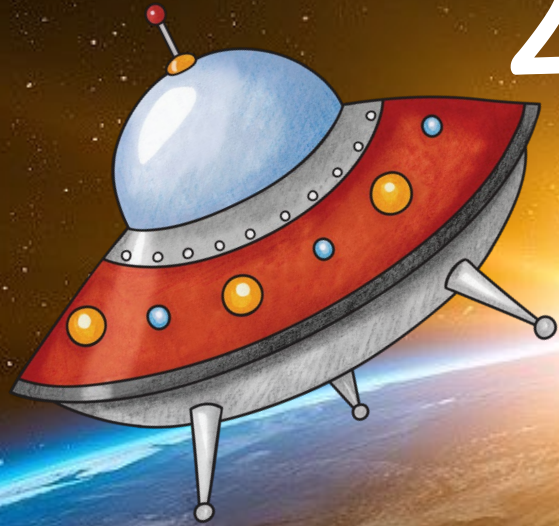


Earth Day Alien Escape

2nd Grade Math Review

Escape Room

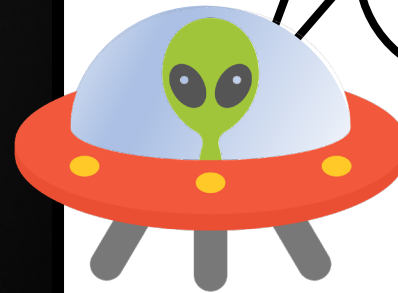


Print & Digital



Immerse in the Story

You know, we aliens came to Earth to try to help your planet, but now four of my friends are stuck in some pretty polluted places! Please, help me pick them all up before this Earth Day is over.



Learn more!



4 Math Challenges

- Standards Based
- Scaffolded

Challenges

1. Addition and subtraction (2.OA.A.1, 2.NBT.B.7)
2. Place Value (2.NBT.A.1, 2.NBT.B.4)
3. Arrays (2.OA.C.4)
4. Geometry & Fractions (2.G.A.1, 2.G.A.2, 2.G.A.3)

Learn more!



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. A Geiger counter is a device that measures radiation. The number of counters arranged into an array as shown in the addition equation represents the

Challenge #2

1. Solve each place value problem.
2. Record answers on your brochure.
3. Check your answers in the Alien Rescue Decoder.
4. Put Petty Officer Globnix in the spaceship.
5. Scan the QR code in the corner of the next page.
6. Move on to challenge #3.

1. An oil tanker ran ashore on a coral reef, causing many of its oil barrels to fall into the ocean! The number comparison below compares the number of barrels that

2. A bunch of volunteers have come to the beach to help clean up the oil spill. Some volunteers are wading in the water, and some are standing on the sand. Which number correctly completes the number comparison?

$$\begin{array}{ccc} 176 & < & ? \\ \text{volunteers} & & \text{volunteers} \\ \text{in the water} & & \text{in the sand} \end{array}$$

- a. 167
- b. 175
- c. 169
- d. 178

THE CHALLENGES



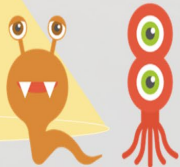
1. Solve the addition and subtraction problems.

2. Solve the place value problems.

3. Solve the problems with arrays.

4. Solve the geometry problems.

I'm Ready!



3 Versions

- Print
- Google Slides
- Webscape™ (Our most popular experience)

Learn more!



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.
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1. Lieutenant Ipsix finds a box of Geiger counters in the spaceship. A Geiger counter is a device that measures radiation. The addition equation represents the

Challenge #2

1. Solve each place value problem.
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3. Check your answers in the Alien Rescue Decoder.
4. Put Petty Officer Globnix in the spaceship.
5. Scan the QR code in the corner of the next page.
6. Move on to challenge #3.

1. An oil tanker ran ashore on a coral reef, causing many of its oil barrels to fall into the ocean! The number comparison below compares the number of barrels that fell into the ocean.

$$176 < ?$$

volunteers in the water volunteers in the sand

- a. 167
- b. 175
- c. 169
- d. 178

Petty Officer Globnix descends from the spaceship to observe the clean-up. The total number of volunteers he sees is represented by the blocks below. How many volunteers does Petty Officer Globnix see?



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!

Let's Go!

	PDF 	Google Slides 	Webscape™ 
Format Type	Printable	Digital	Digital
Device	N/A	Any Device	Any Device
Required Prep	Print & Go	Copy & Share	Zero Prep
Student Answers	Printable Answer Pamphlet	Google Sheets Decoder Tool	Integrated Challenge Hub
Self Correcting	Includes Answer Key	Self Correcting	Self Correcting
Custom Videos	QR Codes	Embedded You Tube	Embedded
Audio Readings	N/A	No Audio Readings	Contains Audio Readings
Navigation	N/A	Student Directed	Automatically Advancing
Extras	Early Finish Challenges	Movable Pieces	Interactive Animation

3 Versions

- Print
- Google Slides
- Webscape™ (Our most popular experience)

Learn more!



Print

- Low prep
- Paper Saving
- Optional QR codes so students experience videos

Learn more!



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 c. 308 feet
b. 152 feet d. 262 feet

1. 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

a. 82 factories
b. 72 factories
c. 67 factories
d. 62 factories

3. None of the residents of Smog City walk, bike, or take public transportation. They all drive their own cars everywhere! Commander Glibnar sees 456 cars go by in one hour. In the next hour, he sees 387 more cars go by. How many cars have passed Commander Glibnar?

a. 833 cars c. 733 cars
b. 743 cars d. 843 cars

4. Commander Glibnar tries using his Air Purifying Laser to clean the air in Smog City. He runs it for 239 minutes, but the air is as smoggy as ever! He recharges it and runs it for 100 minutes more. For how many minutes did he use the laser?

a. 139 minutes c. 249 minutes
b. 1239 minutes d. 339 minutes

5. Commander Glibnar is counting how many vehicles are stuck in a traffic jam. He uses the "break apart" strategy to help him. This is what he did to find the number.

$$\begin{array}{r} 93 \text{ cars} + 46 \text{ trucks} = ? \text{ vehicles in total} \\ \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \\ 90 + 3 \quad 40 + 6 \quad = ? \end{array}$$

Which set of equations shows Commander Glibnar's thinking using the "break apart" strategy?

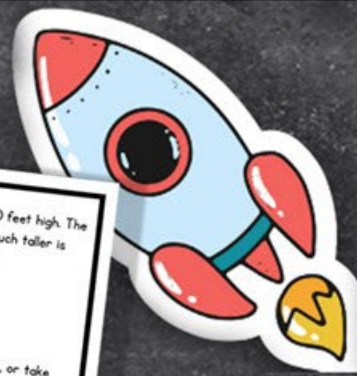
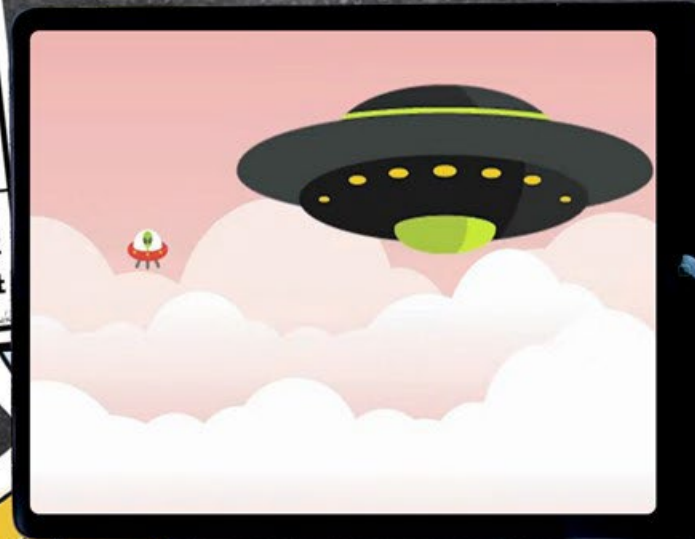
- a. $90 + 40 = 130$, and $3 + 6 = 9$, so $130 + 9 = 139$ vehicles
b. $90 + 3 = 93$, and $40 + 6 = 46$, so $93 + 46 = 139$ vehicles
c. $90 + 3 + 40 + 6 = 139$ vehicles
d. $90 + 6 = 96$, and $40 + 3 = 43$, so $96 + 43 = 139$ vehicles

6. The landfill in Smog City is overflowing, so every day they burn 3 truckloads of trash instead of putting it in the landfill. Commander Glibnar drew this diagram to determine how many truckloads of trash are burned each week. Which repeated addition sentence matches the diagram?



- a. $3 + 7 = 10$
b. $3 + 3 + 3 + 3 + 3 + 3 = 18$
c. $3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$
d. $7 + 3 = 10$


Scan the QR code or click [here](#) to view the video.



Print

- Cut and paste stamps for each challenge
- Easy to follow
- Optimal for group or partner work

Learn more!



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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!



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

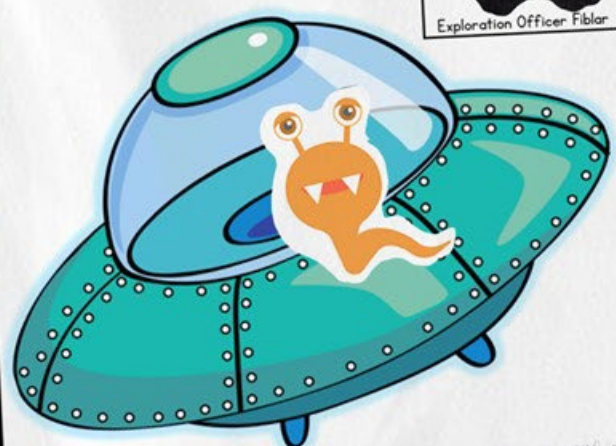
Some of the residents of Smog City walk, bike, or take public transportation. They all drive their own cars. Somewhere! Commander Glibnar sees 456 cars go by in one hour. In the next hour, he sees 387 more cars go by. How many cars have passed Commander Glibnar?

- a. 833 cars
- b. 743 cars
- c. 733 cars
- d. 843 cars


4. Commander Glibnar tries using his Air Purifying Laser to clean the air in Smog City. He runs it for 239 minutes, but the air is as smoggy as ever! He recharges it and runs it for 100 minutes more. For how many minutes did he use the laser?

- a. 139 minutes
- b. 1,239 minutes
- c. 249 minutes
- d. 339 minutes


Cut out each alien. After each challenge, paste the alien into the spaceship. Once all the aliens are safely back on the ship, they can return home!




Exploration Officer Fibrar



Lieutenant Ipsix



Commander Glibnar



Petty Officer Globnix

Print

- Recording brochure for answers
- Self-checking decoder
- Certificate of completion

Learn more!



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 = smog d = underneath	a = when the b = smokestack c = pollution d = a pile	a = of old b = to his c = when the d = since	a = factory b = spaceship c = fires d = window

Challenge 2	question 1	question 2	question 3	question 4	question 5	question 6
	a = He was b = With a c = First you d = Not	a = water b = cleaning c = how	a = dish soap b = volunteer c = spill d = he	a = because b = and c = washing d = but then	a = a little b = sometimes c = lots of d = he goes	a = of fumes b = on the beach c = back home d = scrubbing

Challenge 3	question 1	question 2	question 3	question 4	question 5	question 6
	a = underground b = radioactive c = chasing d = into	a = the b = out c = help him d = running	a = quickly b = nuclear plant c = afterwards d = immediately			

EARTH DAY ALIEN RESCUE

(name)

has successfully saved all the
aliens from the Earth's pollution!

Scan the QR code
or click [here](#)
to view the video

(Date)

Thank you, Earthling!

CHALLENGE 1

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

Where was Commander Glibnar hiding?

CHALLENGE 2

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

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

CHALLENGE 3

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

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



OOPS!
You forgot to recycle!



OOPS!
Your eyes are irritated from the smog!



YOU MUST BE BLINDFOLDED FOR 5
MINUTES. NO USING YOUR EYES
DURING THIS TIME!

OOPS!
You need to clean up!



NO HELPING YOUR TEAM
FOR 3 MINUTES!

Print

- OOPS! Cards for differentiation

Learn more!



Webscape TM

- Most interactive experience
- Self correcting
- Embedded videos
- Embedded audio
- Animation
- Simple navigation

Learn more!

A screenshot of the Webscape interface displayed on a tablet. The background of the interface is a space scene with a planet, a sun, and a UFO. The text 'SOLVE THE PROBLEM' is at the top with a speaker icon. A yellow triangle with the number '1.' points to the problem text. The problem asks for the total number of factories in Smog City based on three categories. Below the text are four teal buttons with different answers.

SOLVE THE PROBLEM

1.

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

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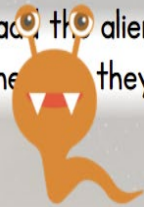
Webscape TM

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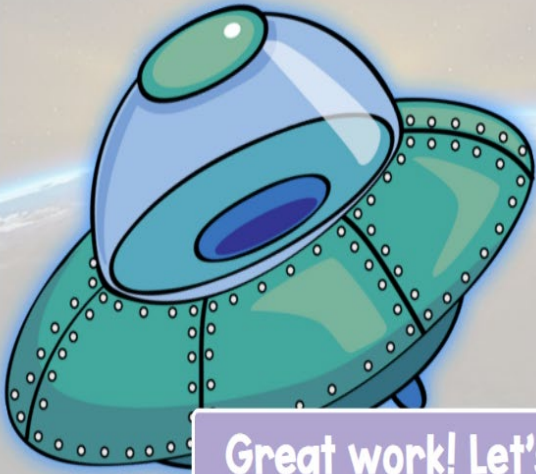
Learn more!



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!

Google Slides

- One problem per slide
- Students drag to highlight answer



SOLVE THE PROBLEM.

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

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23 electronics factories
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- a. 82 factories
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- c. 67 factories
- d. 62 factories

Drag to circle
your answer



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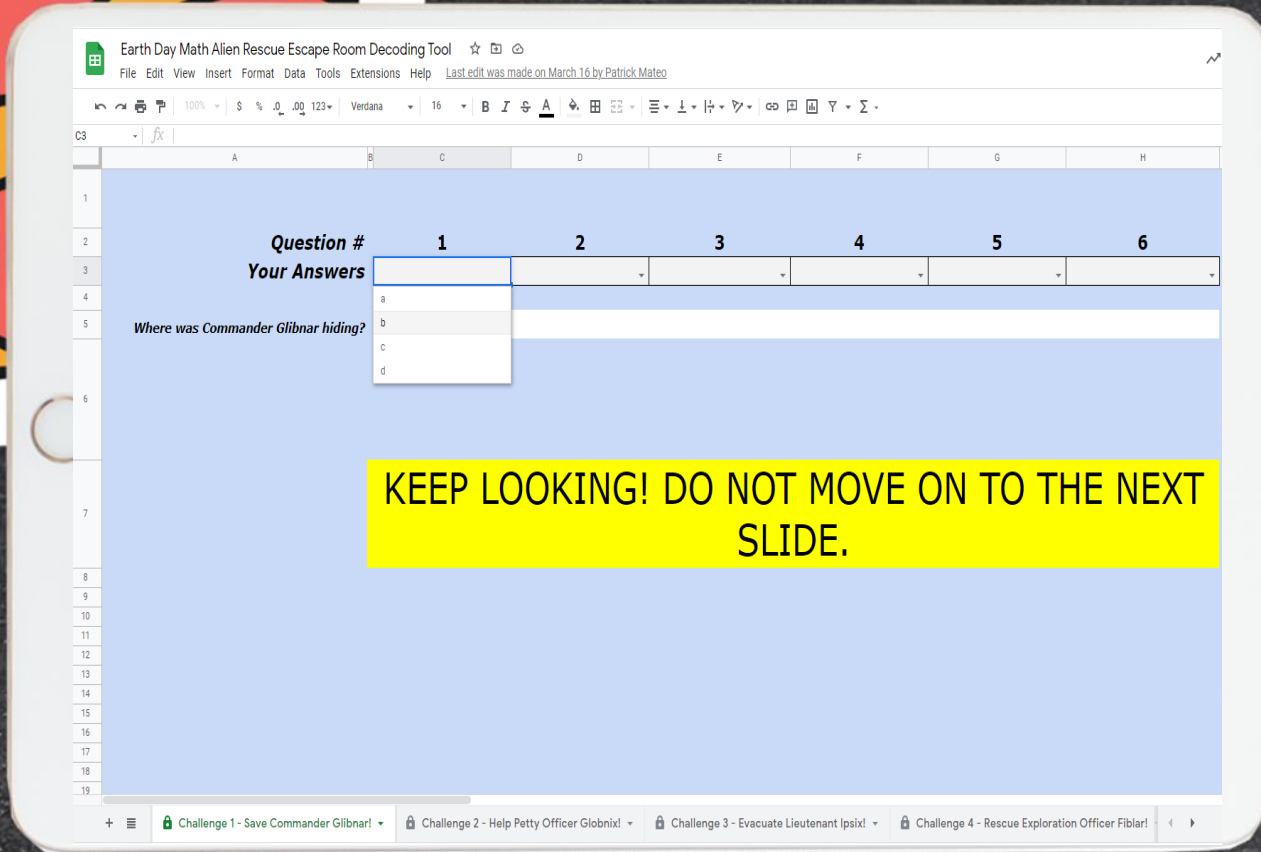
Learn more!



Google Slides

- Toggle to self-checking decoder
- Decoder will prompt at the end of each challenge whether students are correct or need to check their work.

Learn more!



Looking for More?

