

2nd Grade

MATH REVIEW



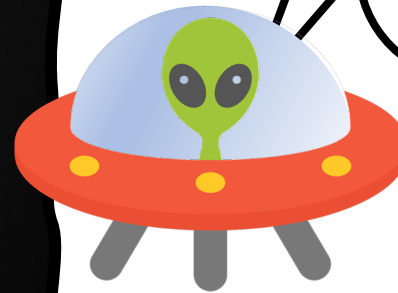
EARTH DAY
ALIEN RESCUE
ESCAPE ROOM



PRINTABLE • GOOGLE • WEBSCAPE™

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!



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 Fiblar

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

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



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 counter batteries. The batteries are arranged into an array as shown. Which addition equation represents the array?

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 in the water and on the sand.

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

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

THE CHALLENGES



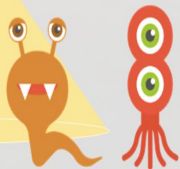
1. Solve the addition and subtraction problems.

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!
5. Scan the QR code in the corner of the page.
6. Move on to challenge #4.



2. Lieutenant Ipsix takes his Geiger counter to the plant. On the ground, there are 9 manhole covers arranged in a 3x3 grid. Which array shows how the covers are arranged?

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.



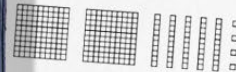
2. A bunch of volunteers have come to the beach to help clean up the oil spill. Some volunteers are wading in the water, and some are standing on the sand. Which number correctly completes the number comparison?

$$176 < \frac{?}{\text{volunteers in the sand}}$$

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

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 sank in the water to the number of barrels that were cleaned up on the beach.

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?



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

□ + □ = □



Greetings, Earthlings!

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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 Fiblar

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

Challenge #1

- Solve each addition or subtraction problem.
Record answers on your brochure.
 - Check your answers in the Alien Rescue Decoder.
 - Put Commander Glibnar in the spaceship.
 - Scan the QR code in the corner of the next page.
 - Move on to challenge #2.
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
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
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
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. 1239 minutes
c. 249 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.

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

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. $3 + 3 + 3 + 3 + 3 = 18$
c. $3 + 3 + 3 + 3 + 3 + 3 = 21$
d. $7 + 3 = 10$

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




Learn more!



Print

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

Learn more!



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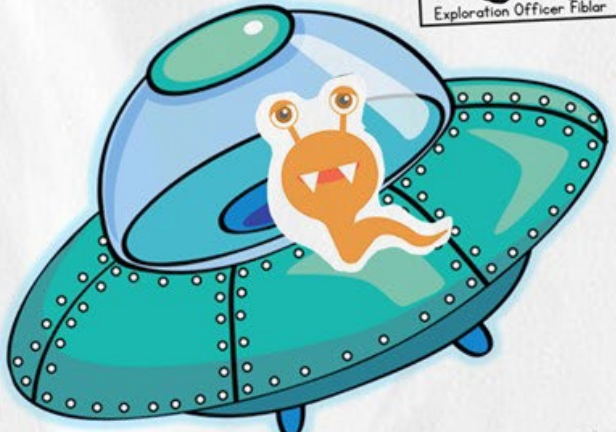
Crew members to help:





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

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



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!



 <p>Exploration Officer Fibrar</p>	 <p>Lieutenant Ipsix</p>
 <p>Commander Glibnar</p>	 <p>Petty Officer Globnix</p>

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

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 a = We were b = He was c = He had d = There was question 2 a = going b = hiding c = into d = called question 3 a = near b = because c = smog d = underneath question 4 a = when the b = smokestack c = pollution d = a pile question 5 a = of old b = to his c = when the d = since question 6 a = factory b = spaceship c = fires d = window
Challenge 2 question 1 a = He was b = With a c = First you d = Next question 2 a = water b = cleaning c = fan question 3 a = dish soap b = volunteer c = spit d = ts question 4 a = because b = and c = washing d = but then question 5 a = a little b = sometimes c = lots of d = he goes question 6 a = of fumes b = on the beach c = back home d = scrubbing
Challenge 3 question 4 a = underground b = radioactive c = chasing d = into question 5 a = the b = suit c = help him d = running question 6 a = quickly b = nuclear plant c = afterwards d = impossible

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		CHALLENGE 2		CHALLENGE 3																																										
	<table border="1"><thead><tr><th>Answer</th><th>Code</th></tr></thead><tbody><tr><td>1.</td><td></td></tr><tr><td>2.</td><td></td></tr><tr><td>3.</td><td></td></tr><tr><td>4.</td><td></td></tr><tr><td>5.</td><td></td></tr><tr><td>6.</td><td></td></tr></tbody></table>	Answer	Code	1.		2.		3.		4.		5.		6.		<table border="1"><thead><tr><th>Answer</th><th>Code</th></tr></thead><tbody><tr><td>1.</td><td></td></tr><tr><td>2.</td><td></td></tr><tr><td>3.</td><td></td></tr><tr><td>4.</td><td></td></tr><tr><td>5.</td><td></td></tr><tr><td>6.</td><td></td></tr></tbody></table>	Answer	Code	1.		2.		3.		4.		5.		6.			<table border="1"><thead><tr><th>Answer</th><th>Code</th></tr></thead><tbody><tr><td>1.</td><td></td></tr><tr><td>2.</td><td></td></tr><tr><td>3.</td><td></td></tr><tr><td>4.</td><td></td></tr><tr><td>5.</td><td></td></tr><tr><td>6.</td><td></td></tr></tbody></table>	Answer	Code	1.		2.		3.		4.		5.		6.	
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Where was Commander Glibnar hiding?	How can you clean all the oil off Petty Officer Globnix?	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!

PS!
need to clean up!

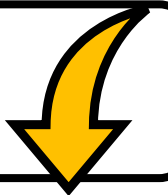


NO HELPING YOUR TEAM
FOR 3 MINUTES!

Print

- OOPS! Cards for differentiation

Learn more!



Webscape™

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

Learn more!



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?

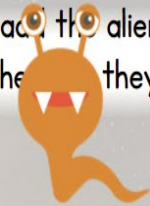
- 18 automobile factories
- 23 electronics factories
- 31 toy factories

82 factories 72 factories 67 factories 62 factories

The screenshot shows a tablet interface with a space-themed background. At the top left, a yellow comet streaks across the sky. The main content area features a question about the total number of factories in Smog City, based on three categories: automobile (18), electronics (23), and toy (31) factories. Below the question are four teal-colored buttons with white text, each representing a possible total: 82, 72, 67, and 62. The background of the tablet screen shows a view of Earth from space with a bright sun in the upper right.

Webscape™

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!

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

Learn more!



Google Slides

1

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?

18 automobile factories
23 electronics factories
31 toy factories

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

Drag to circle
your answer



©2016 Pops

- One problem per slide
- Students drag to highlight answer

Learn more!



Google Slides

Earth Day Math Alien Rescue Escape Room Decoding Tool

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 Globnix! | Challenge 3 - Evacuate Lieutenant Ipsix! | Challenge 4 - Rescue Exploration Officer Fiblar!

- 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?

Earth Day Bundle

2nd Grade

2nd Grade Math Earth Day Alien Rescue Escape Room

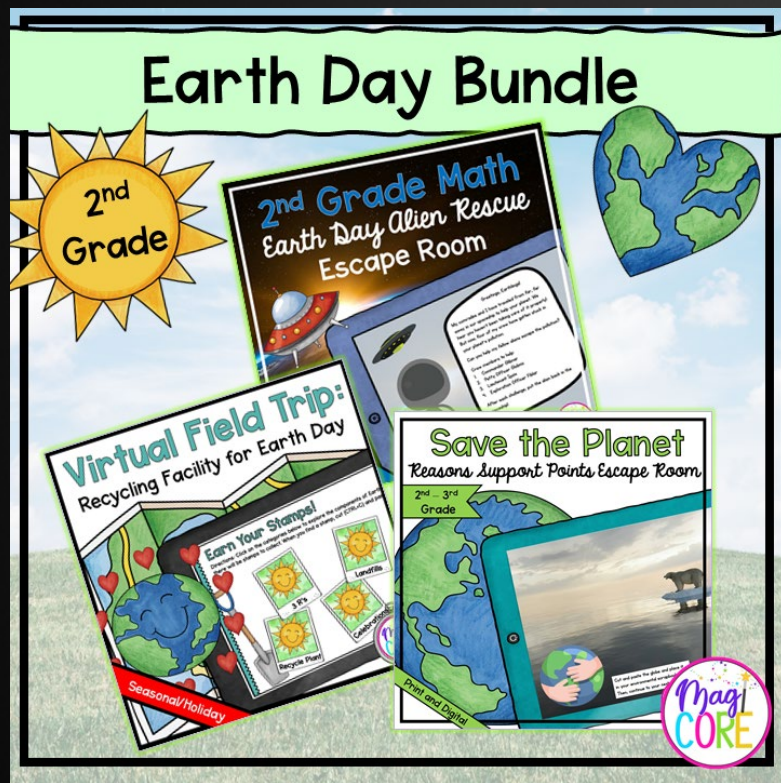
Virtual Field Trip: Recycling Facility for Earth Day

Save the Planet Reasons Support Points Escape Room

Earn Your Stamps!

Seasonal/Holiday

Print and Digital



Magi CORE

Holiday Math Escape Room Bundle

2nd Grade

2nd Grade Math Lucky's Map Escape Room

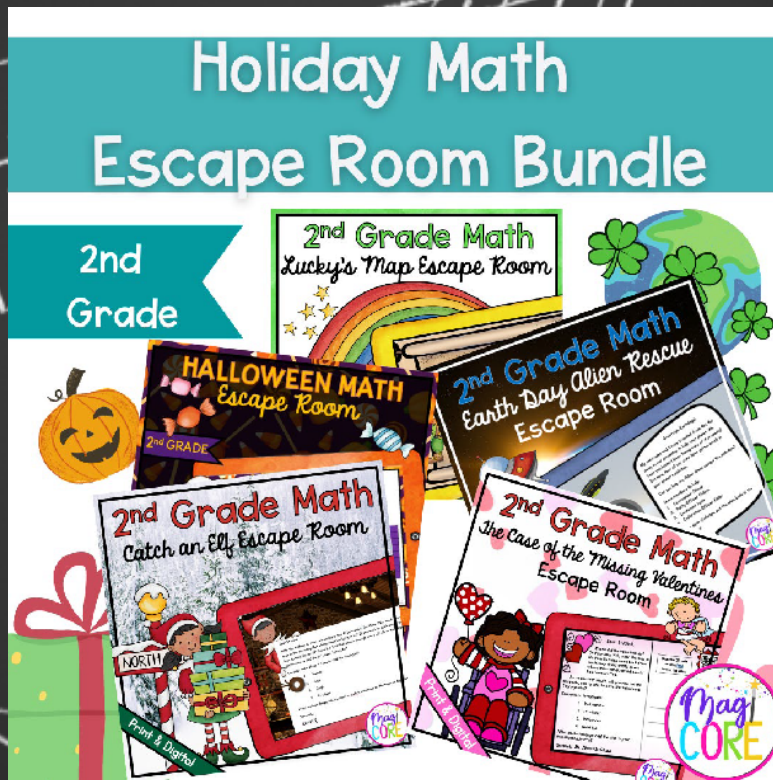
HALLOWEEN MATH Escape Room

2nd Grade Math Earth Day Alien Rescue Escape Room

2nd Grade Math Catch an Elf Escape Room

2nd Grade Math The Case of the Missing Valentines Escape Room

Print & Digital



Magi CORE

MATH REVIEW School Escape Room

2nd Grade

1. Which choice correctly compares the numbers?

$342 >$ three hundred fifty

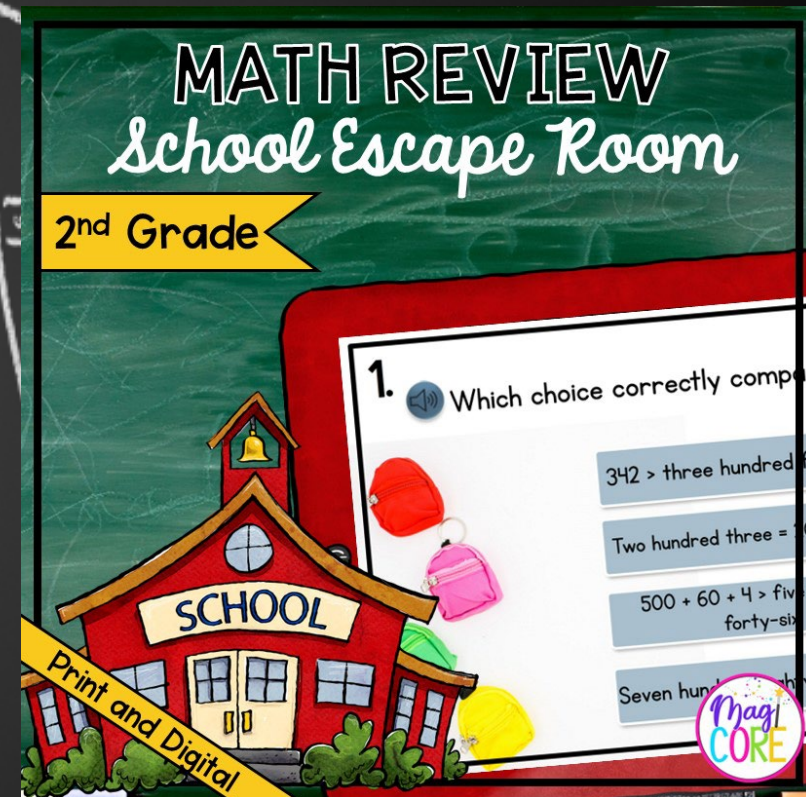
Two hundred three = 0

$500 + 60 + 4 >$ five hundred forty-six

Seven hundred eighty

SCHOOL

Print and Digital



Magi CORE