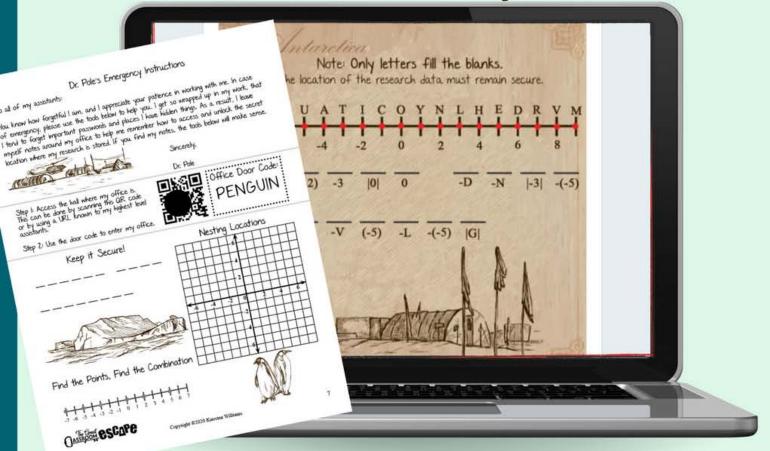


6th Grade Math

Absolute Value & Negative Numbers

Digital Escape Room





Standards

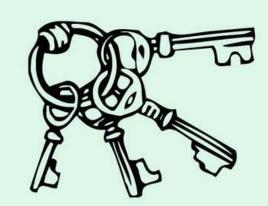
6.NS.C.6, 6.NS.C.6a, 6.NS.C.6b, 6.NS.C.6c, 6.NS.C.7, 6.NS.C.7a, 6.NS.C.7b, 6.NS.C.7c, 6.NS.C.7d, 6.NS.C.8

6th Grade Math Skills

Plotting points in all four quadrants and determining distance between points, inequalities with absolute value & negative numbers, & much more!

fast facts

- No prep, click & go! *Optional pages to print
- Secape Time ~45 (varies by group)
- Recommended to complete in pairs or small groups
- Requires internet connected device
- Self-Checking
- Virtual or in-person
- Five Engaging Puzzles



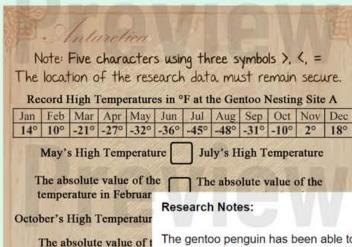
How it Works:

- The escape room is automated by a Google Form™ (Google™accounts are not required).
- Use the quick start link to click & go, or create a copy of the form to save to your drive (the teacher must have a Google Account to save a copy).
- Students only progress through the puzzles when correct answers are entered.
- The form provides hints if students enter incorrect answers.





Puzzle Preview



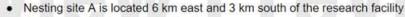
temperature in Decemb

March's High

Students input answers into the Google Form & progress when correct answers are entered.

The gentoo penguin has been able to adapt much better than other penguin species to the changing climate in Antarctica.

I have been tracking four nesting sites. I plot them on a coordinate plane. The origin represents the research center. The x-axis represents how many kilometers west or east of the research center the nesting site is, and the y-axis tracks the distance north or south.



- Nesting site B is located at (-3, -3)
- . Nesting site C is located 3 km east and 5 km north of the research facility
- Nesting site D is located at (6, 5)

These nesting locations determine the three-digit combination to my desk drawer.

Digit 1: Distance between nesting sites A and D.

Note: Only letters fill the blanks.
The location of the research data must remain secure.

S P G F U A T I C O Y N L H E D R V M

-8 -6 -4 -2 0 2 4 6 8

-R |-5| -(-2) -3 |0| 0 -D -N |-3| -(-5)

-Y |0| |9| -V | (-5) -L | -(-5) |G|

How to Open the Safe:

-Push each letter once to unlock the lock.

-Figure out where each letter goes on the number line.

-Push the buttons in order from least to greatest. |A| = B $E > -1 \quad \text{but } E < |-1|$ -C > B $|F| > D \quad \text{but } F < D$

Puzzle Preview

Scientists measure elevation based on sea level. Sea level is at 0 feet. Distances below sea level * are written using negative numbers. Distances above sea level are written as positive numbers. A Gentoo penguin is hunting prey at a depth of 651 feet below sea level. The bottom of the iceberg it is hunting near is at -640 feet. The top of the iceberg is 124 feet above sea level. Which of these is farthest from sea level:





vie

- A: The top of the iceberg.
- B: The bottom of the iceberg.
- C: The Gentoo penguin.

The Gentoo penguin is still hunting prey at a depth of 651 feet below sea level. The bottom of the iceberg it is hunting near is at -640 feet. The top of the iceberg is 124 feet above sea level. Which of these has the highest elevation?



- ICAICAA
- A: The top of the iceberg.
- B: The bottom of the Iceberg.

O degrees is the freezing point of water in Celsius. Temperatures below 0°C are written as negative numbers. The high temperatures for three days are written below. Which day was the warmest?



eview Preview

A: Monday -29°C

B: Tuesday - 25°0

C: Wednesday - 30°C

per of chicks that hatch from year to year in three different cks is written as a positive number. A decrease in the ed as a negative number. Use the chart below to answer least change (smallest absolute value) in the number of

lony Name	Chick Hatchings
A	-47
В	+51
C	-17

Previev

O Colony A

Colony

Colony C

Preview

Optional Printable Pages

Dr. Pole's Emergency Instructions

To all of my assistants:

You know how forgetful I am, and I appreciate your patience in working with me. In case of emergency, please use the tools below to help you. I get so wrapped up in my work, that I tend to forget important passwords and places I have hidden things. As a result, I leave myself notes around my office to help me remember how to access and unlock the secret location where my research is stored. If you find my notes, the tools below will make sense.



Sincerely,

Dr. Pole

Step 1: Access the hall where my office is. This can be done by scanning this QR code or by using a URL known to my highest level assistants.



Office Door Code: PENGUIN

þ

puzzle

Step 2: Use the door code to enter my office.

Keep it Secure!											
_	_	-	_	_	_		_	_	_	_	
_	_	_	_	_	_	_	_				

Find the Points, Find the Combination



CASSROOM ESCAPE

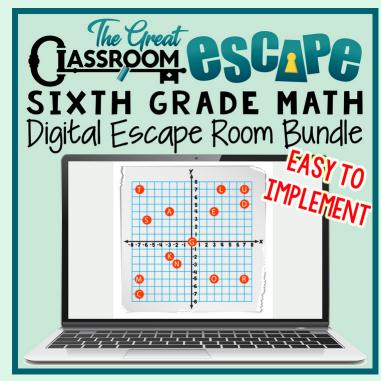
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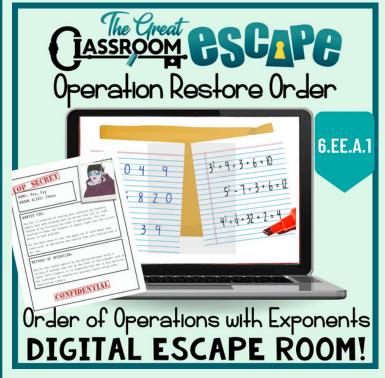
Syccess Signs



You May Also Like











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