

# DIGITAL CLASSROOM ESCAPE

Properties  
of Matter

EASY PREP!



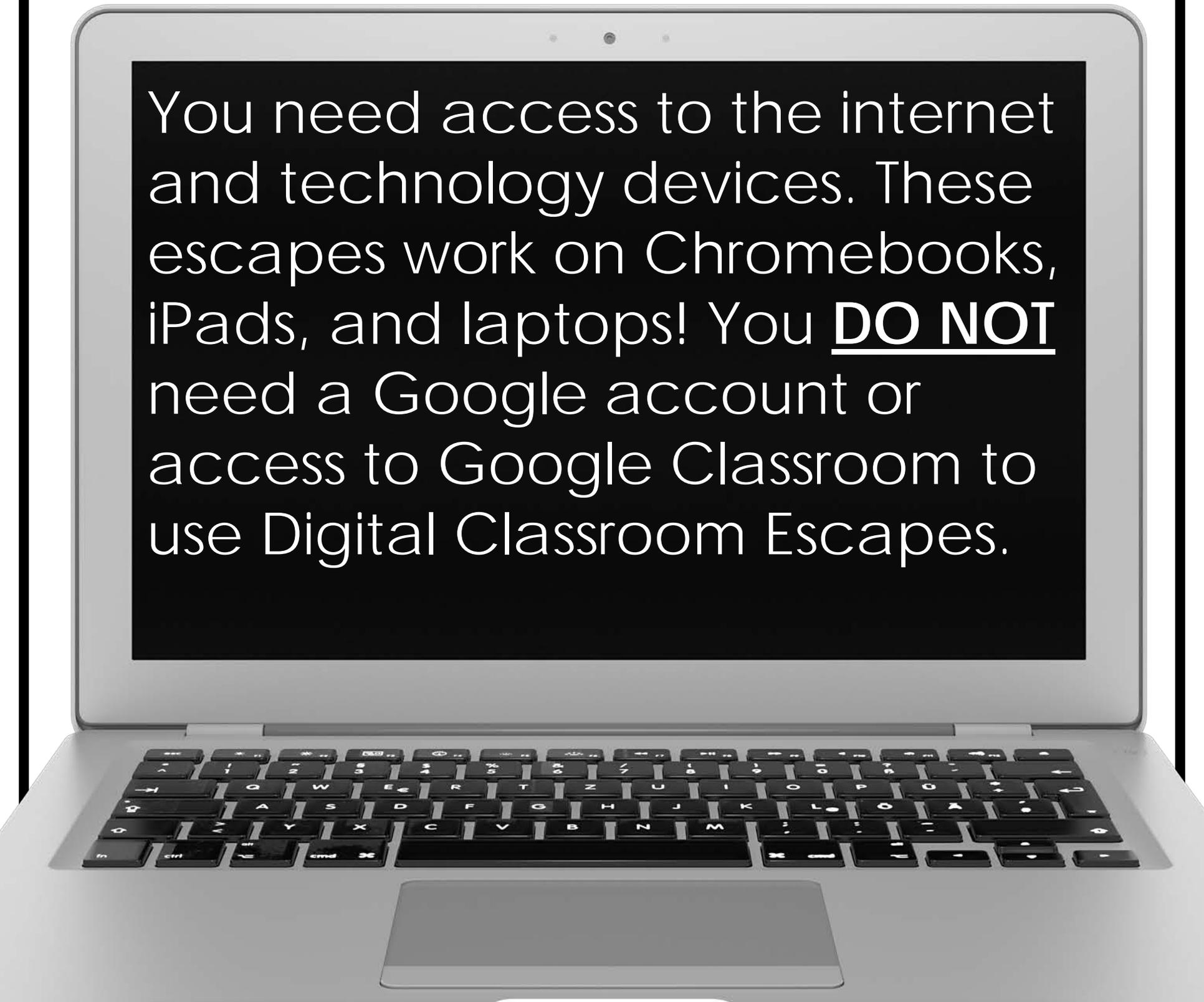
# WHAT IS A DIGITAL ESCAPE?

A digital classroom escape is an interactive activity in which teams of students use clues to solve challenges and unlock "digital locks." Each Science Digital Escape has four puzzlers and challenges for students to complete! Teacher directions and tips are included!



# WHAT DO I NEED TO ACCESS THIS ESCAPE?

You need access to the internet and technology devices. These escapes work on Chromebooks, iPads, and laptops! You **DO NOT** need a Google account or access to Google Classroom to use Digital Classroom Escapes.



# BENEFITS OF A DIGITAL ESCAPE:

- EASY PREP! Nothing to print except for teacher directions/ tips.
- Interactive for students
- Immediate student feedback
- Promotes team building/ peer collaboration
- Promotes problem solving skills
- Targets technology standards
- Aligned to science curriculum**

# EVERYTHING YOU NEED IS HERE!

## GETTING STARTED:

### PREP BEFORE THE ESCAPE

### INTRODUCING THE ESCAPE

### DURING THE ESCAPE

#### What does the teacher do?

Monitor your students to ensure that the escape is being completed appropriately. Observe the dynamics of each group. Are there students that are trying to hog the activities and tech device? Are there students that are sitting back and not participating? Encourage proper behavior.

#### What do I do if a group is struggling?

Productive struggle is okay! Encourage students to keep trying. You don't want to help them along too early. After some time, if a group is struggling to advance to the next activity give them a clue. They are allowed one FREE clue. Any hints afterwards will cost a group an extra 3 minutes of time per clue.

Activities #2 and #4 are academic based. If students are struggling to find the correct combination for the lock, you can give them a clue/hint by telling them the question with the incorrect answer.

Refer to your "cheat sheet" containing information and clues regarding each activity to help your students.

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Teacher directions and tips for every step of the process, along with detailed answer keys!

#### TEACHER INFORMATION SHEET FOR CLASSROOM ESCAPE - ESCAPE THE

##### Activity #1

Activity #1 starts with a story. Some of the letters are colored green. When pulled out the letters reveal the secret message: **THE ONLY WAY TO START IS TO STEP IN.** Students need to click at photo with the maze entrance on the dirt path.

##### Activity #2

For activity #2 students need to convert height measurements from inches to feet and order the measurements from shortest to tallest. The secret message is: **THE PINE NEEDLES WILL GUIDE YOU ON YOUR WAY.** Students will need to click on the pine needle twig (click near the bottom) to access the next challenge.

##### Activity #3

Activity #3 is a math challenge. Students will need to calculate the value of each sweater. ANSWERS: sweater with lights: 5, sweater with reindeer: 13, sweater with tree: 9, and snowman: 17. Students will need to enter the value of sweater into the lock form to access the next challenge.

##### Activity #4

Based on the clue (YOU CAN'T FEEL BLUE WITH ALL OF THOSE LIGHTS) students need to click on one of the blue lights to reveal the code: **REINDEER FOOT.** Students will need to click on the reindeer for their final challenge. At this point students with the maze worksheet. Once students complete the challenge they will receive the secret password: **TINSEL.** This password will complete the challenge!

#### STUDENT CLUES/ HINTS CHEAT SHEET

If you have a group that is stuck, you may give them a clue! Use this sheet as a guide for providing clues. The first clue is free. Any additional clues will add three extra minutes to the group's finishing time.

##### CLUES/HINTS FOR ACTIVITY #1

- Do you notice how some letters in the story are colored red and green?
- Try pulling out the letters to reveal a secret message.
- Message: **THE ONLY WAY TO START IS TO STEP IN.**
- Click the dirt path in the photo with the maze entrance.

##### CLUES/HINTS FOR ACTIVITY #2

- See next page for the heights listed from shortest to tallest.
- Message: **THE PINE NEEDLES WILL GUIDE YOU ON YOUR WAY.**
- Click on the photo with the small twig of pine needles. (Click towards the bottom near the branch).

##### CLUES/HINTS FOR ACTIVITY #3

- Check the value of each sweater: sweater with lights: 5, sweater with snowflakes: 3, sweater with reindeer: 13, sweater with tree: 9, and sweater with snowman: 17.

##### CLUES/HINTS FOR ACTIVITY #4

- Try finding something that is blue in one of the photos.
- Click on one of the blue lights.
- Secret message to unscramble: **REINDEER FOOT.**
- See next page for the answers to the scrambled words listed in order.

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# PREVIEW OF THIS ESCAPE



## PROPERTIES OF MATTER

SCIENCE  
DIGITAL  
ESCAPE

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**START HERE: ACTIVITY #1** - If you can see something or touch it, it is matter. Matter is the word that scientists use to describe all of the things that exist, which includes very small things, like atoms, and very large things, like planets. It includes pens and stickers and tuna fish sandwiches. It's all matter.

All matter has mass and volume. Mass is the amount of matter in a certain thing. You can measure the amount of mass that an object has in pounds or grams. If we want to think about the amount of space that something takes up, we can measure its volume. Something can have a large mass and a small volume, like a weight that you could use to exercise with. Or, an object can have a small mass

### Activity #4

Answer each question below. Record your answers on your recording sheet.

\* Required

1.) Select the answer below that correctly lists the density of each object from greatest to least. \*



- A.) Balloon > Cork > Marbles
- B.) Balloon < Cork < Marbles
- C.) Marbles > Balloon > Cork
- D.) Marbles > Cork > Balloon

2.) What is mass? \*

- A.) Mass is the amount of shape an object takes up.
- B.) Mass is the amount of matter in a certain thing.

# CHECK OUT OUR SCIENCE ESCAPES!

**DIGITAL CLASSROOM ESCAPE**  
Earth's Rotation  
& Revolution  
**EASY PREP!**



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**DIGITAL CLASSROOM ESCAPE**  
Potential and  
Kinetic Energy  
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The Scientific  
Method  
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Science  
Process Skills  
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Minerals and  
Their Properties  
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Physical and  
Chemical Changes  
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