

# DIGITAL CLASSROOM ESCAPE PREVIEW & INFORMATION

TANYA YERO Teaching

## DIGITAL CLASSROOM ESCAPE

Lunar and  
Solar Eclipses  
**EASY PREP!**



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**YOU JUST  
NEED THE  
INTERNET!  
FUN FOR  
STUDENTS**

# 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.” These activities consist of two academic activities aligned to a specific science topic and two puzzlers/challenges. Teacher directions and tips are included!

Classroom Digital Escape Eclipses



## TYPES OF ECLIPSES

SCIENCE  
DIGITAL  
ESCAPE

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**Activity #1** - If you look at the sky, you will be able to observe many interesting things. During the day, you will notice that the sun appears to move through the sky. This is actually because the Earth is rotating, or spinning around, on its axis. If you observe the sky at night, you will see the Moon and stars. The Moon also appears to move. The Moon is orbiting the Earth. This means it is moving around the Earth in a big circle. Just as the Moon is orbiting the Earth, the Earth is orbiting the Sun. All that movement means some interesting things can happen.

An eclipse is something that happens when an object blocks the light from the Sun and casts a shadow onto another object. There are two types of eclipses that you may observe: a solar eclipse and a lunar eclipse. During a solar eclipse, the Moon moves between the Sun and the Earth, casting a shadow onto the Earth. During a lunar eclipse, the Earth moves between the Sun and the Moon, casting a shadow on the Moon.

### Solar Eclipse

We here on the planet Earth are very lucky to be able to experience a solar eclipse. Our sun happens to be 400 times wider than our Moon. It is also 400 times as far away as our Moon. Because of this coincidence, the Sun and Moon sometimes appear to be the same size in the sky. If the Moon passes between the Earth and the Sun during the daytime, it casts a shadow onto a small section of the Earth.

### TEACHER DIGITAL C

#### Activity #1

Activity #1 is a story. With letters are put together or message reads: **YOU MAY** to click on the red light

#### Activity #2

Activity #2 is five proced standard: 4.MD.3 - Appl real world and mathem  
**ANSWERS: C-B-D-B-D**  
The letters selected in

#### Activity #3

Students will be given the purple. Students need to arranged by color. Next s factory using the clues pr answers for each room so room: Lobby- 135, Restroc Marker Development- 281 Orders/Shipping- 359 TOT/ students will be given this unless you use colored pc

#### Activity #4

Activity #4 is five con the standard.  
**ANSWERS: B-19-EF-C**  
The letters selected in

### TEACHER CLUES/ HINTS CHEAT SHEET

If you have a group that is stuck, you may give them a clue! 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 are colored? Put the letters together.
- Put like-colored letters together. Arrange the words to form a message.
- The message is: **YOU MAY BE BRIGHT BUT START WITH THE RED LIGHT.**

#### CLUES/HINTS FOR ACTIVITY #2

- Check to see if the group's answers are correct.

LOCK	QUESTION #1	QUESTION #2	QUESTION #3	QUESTION #4	QUESTION #5
LOCK #2	C	B	D	B	D

#### CLUES/HINTS FOR ACTIVITY #3

- Use the clue that Ms. Markel's favorite colored pen is purple.
- Click on a purple pen.
- Check student work of the area for each room on the map.
- Area of each room: Lobby- 135, Restrooms- 90, Ink Development- 414, Employee Lounge- 255, Marker Development- 288, Packing & Supply- 672, Management- 279, Orders/Shipping- 359
- TOTAL AREA: 2,717
- To find activity #4 click on the white colored pencil.

#### CLUES/HINTS FOR ACTIVITY #4

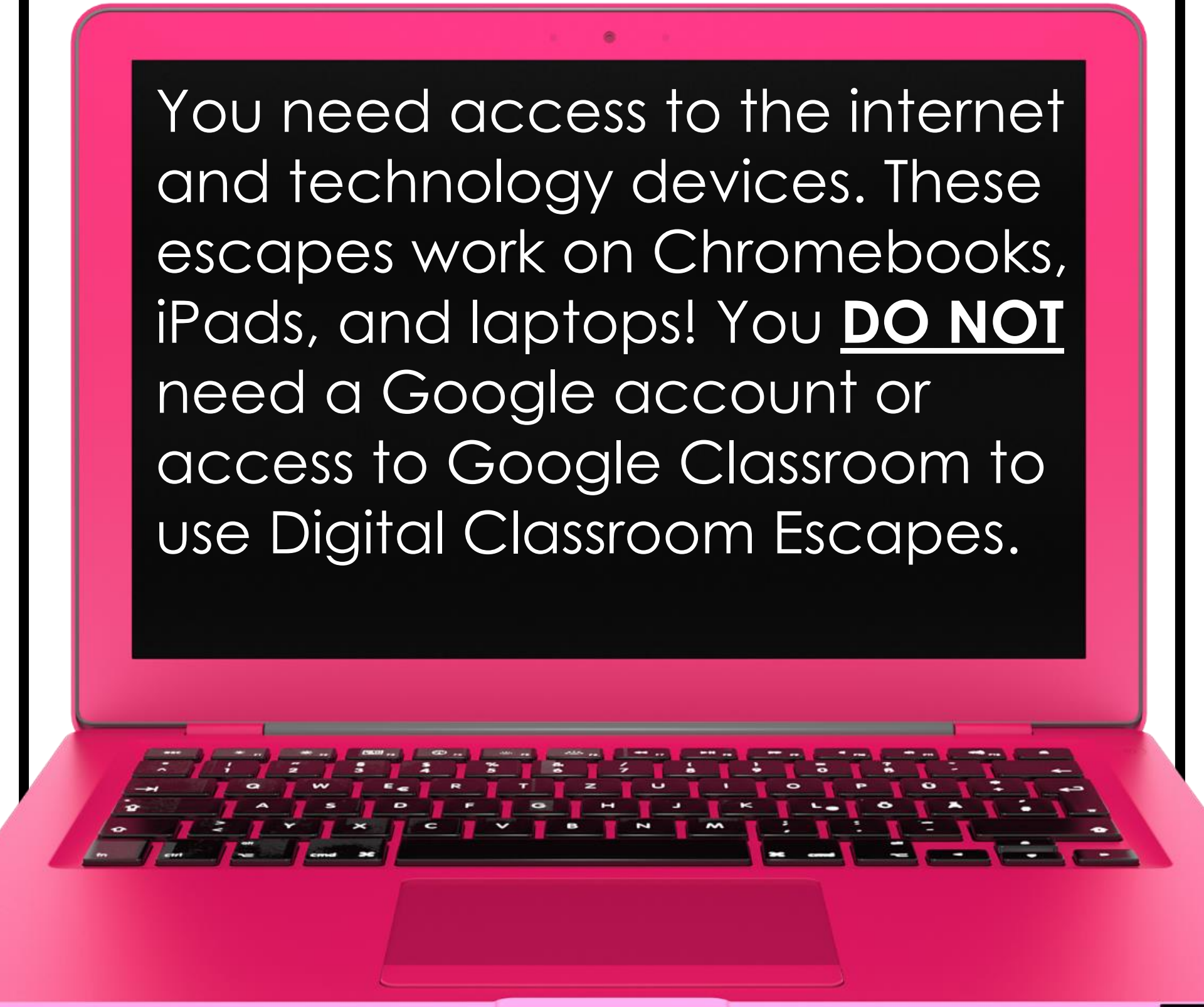
- Check to see if the group's answers are correct.

LOCK	QUESTION #1	QUESTION #2	QUESTION #3	QUESTION #4	QUESTION #5
LOCK #1	B	19	EF	C	C

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# WHAT DO I NEED TO ACCESS THESE ESCAPES?

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 and tips.
- Interactive for students
- Immediate student feedback
- Practice of a specific science topic
- Promotes team building/ peer collaboration
- Promotes problem solving skills
- Targets technology standards

# 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 - SCIENCE PROCESS

#### Activity #1

Activity #1 is science passage. Next, students must click a fingerprint found on the lid of the cookie jar. Students will research the website provided to find out what type of tin pattern is shown. Students will need to enter the correct fit pattern into the LOCK FORM to advance. ANSWER: LOOP. Then click on Maisie's notebook for activity #2.

#### Activity #2

Activity #2 is five science questions on the topic: process scientists use. ANSWERS: A-D-B-B-D  
The letters selected in order unlock lock #2 in the "Lock Form"

#### Activity #3

For activity #3 students are given the following clue: You're track to find out who look the cookies...just keep chipping task. Students need to click on one of the chocolate chip cookie crumbs to access activity #3. Activity #3 is a secret different numbers. The numbers represent letters. (A = 1, B etc.) The secret message reads: THERE IS ONE PERSON IN MY FAMILY WITH A LOOP FINGERPRINT - HER BROTHER LUCAS. You need to type LUCAS into the lock form.

#### Activity #4

Activity #4 is the last five science questions. ANSWERS: B-C  
The letters selected in order unlock lock #4 in the "Lock Form"

### TEACHER CLUES/ HINTS CHEAT SHEET

If you have a group that is stuck, you may give them a clue! 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 anything on the cookie jar?
- Click on the fingerprint found on the cookie jar.
- Answer to the pattern of the fingerprint: LOOP

#### CLUES/HINTS FOR ACTIVITY #2

- Check to see if the group's answers are correct.

LOCK	QUESTION #1	QUESTION #2	QUESTION #3	QUESTION #4	QUESTION #5
LOCK #2	A	D	B	B	D

#### CLUES/HINTS FOR ACTIVITY #3

- Use the phrase: Just keep "chipping away" to find your next challenge.
- Click on one of the chocolate chips in the crumbs.
- What do you think the letters represent? (LETTERS)
- The secret message reads: THERE IS ONE PERSON IN MAISIE'S FAMILY WITH A LOOP FINGERPRINT - HER BROTHER LUCAS.
- Type LUCAS into the lock form.

#### CLUES/HINTS FOR ACTIVITY #4

- Check to see if the group's answers are correct.

LOCK	QUESTION #1	QUESTION #2	QUESTION #3	QUESTION #4	QUESTION #5
LOCK #4	B	C	C	D	D

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# WANT MORE DIGITAL ESCAPES?

Check out our Math Digital Classroom Escapes!

<p><b>DIGITAL CLASSROOM ESCAPE</b> comparing place value <b>EASY PREP!</b></p> <p>4.NB1.1 <b>4TH GRADE</b> TANYA YERO Teaching</p>	<p><b>DIGITAL CLASSROOM ESCAPE</b> area and perimeter <b>EASY PREP!</b></p> <p>4.md.3 <b>4TH GRADE</b> TANYA YERO Teaching</p>	<p><b>DIGITAL CLASSROOM ESCAPE</b> comparing fractions <b>EASY PREP!</b></p> <p>4.NF.2 <b>4TH GRADE</b> TANYA YERO Teaching</p>
<p><b>DIGITAL CLASSROOM ESCAPE</b> converting measurement <b>EASY PREP!</b></p> <p>4.md.2 <b>4TH GRADE</b> TANYA YERO Teaching</p>	<p><b>DIGITAL CLASSROOM ESCAPE</b> multiplying numbers <b>EASY PREP!</b></p> <p>4.NB1.5 <b>4TH GRADE</b> TANYA YERO Teaching</p>	<p><b>DIGITAL CLASSROOM ESCAPE</b> multi-step word problems <b>EASY PREP!</b></p> <p>4.OA.3 <b>4TH GRADE</b> TANYA YERO Teaching</p>

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