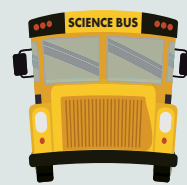
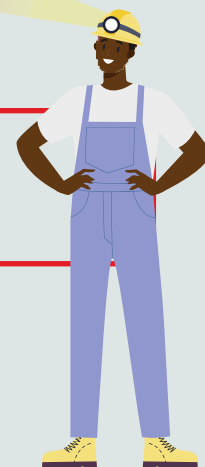


# Brave the Cave



## VIRTUAL Field Trip

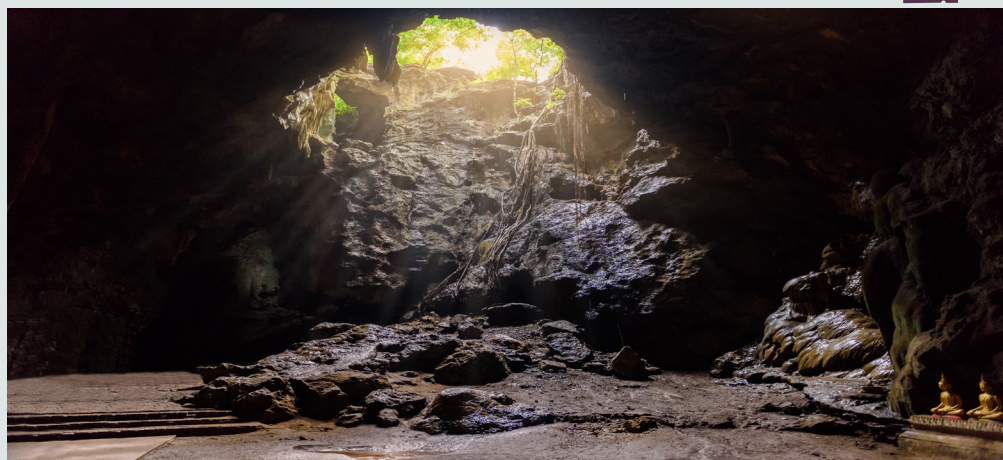
to the California Science Center



### THE SITUATION

You are a scientist. You want to visit a dark cave like the ones below.

What do you notice?  
What do you wonder?



**Focus  
Question:**  
How is light  
useful?

**Buzzword:**  
Visible

What tools  
would you use  
to explore a  
cave?

# EXPERIMENT

## Materials:

- Cave-building:
  - Blankets
  - Sheets
  - Pillows
  - Boxes
  - Other things!
- Cave Games:
  - 4 colored pencils
  - Tape
  - Secret page
  - A measuring tool
  - Something to write with
  - A light



1. Build a dark cave to practice being a cave explorer! Make the inside of your cave as dark as you can.
2. Set up your secret page on page 4.



3. Copy the color and direction of each pencil onto the mini-page on page 3.
4. You will play a game with a partner. When it is your turn to be a cave explorer, you will go inside the cave. When it is your turn to be a data recorder, go to page 3.



# CAVE GAMES

**Data recorder:** Give the cave explorer your secret page. Ask them each question. Check your mini-page to see if they are correct.

## In the dark:

1. Guess the colors.  
How many correct: \_\_\_\_\_
2. Guess which way each one is pointing.  
How many correct: \_\_\_\_\_
3. How far can you see? \_\_\_\_\_

## Shine a light at the “O”:

1. Guess the colors.  
How many correct: \_\_\_\_\_
2. Guess which way each one is pointing.  
How many correct: \_\_\_\_\_
3. How far can you see? \_\_\_\_\_



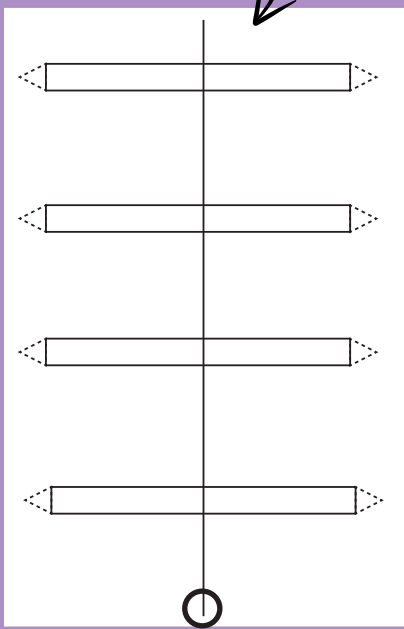
# WHAT’S GOING ON?

Talk through these questions with an adult or partner:

1. Compare your partner’s results in the dark to their results with the light. What is different?
2. How was the light useful to you?

## My Mini-Page

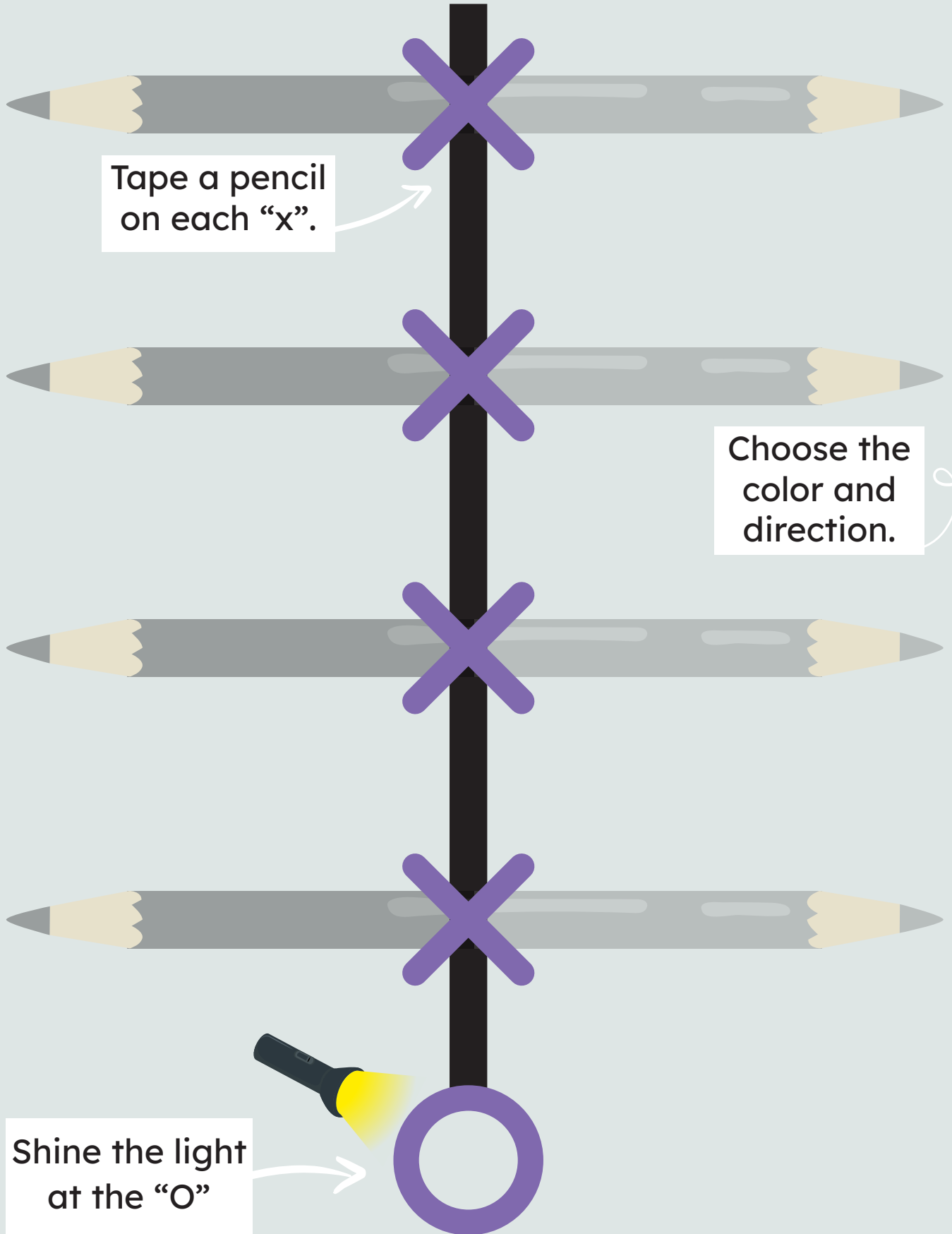
Color in the pencils and draw the points to show how you set up your page.



A scientist who explores caves is called a **speleologist**.



# SECRET PAGE



Tape a pencil on each "x".

Choose the color and direction.

Shine the light at the "O"