

# DETAILED INSTRUCTIONS

## TEACHER NOTES

Welcome to Escape the School! This escape activity is a bit different from my other escape lessons, because it is not directly related to grade level standards. Instead, this project contains a collection of problem solving activities that can be used across multiple grade levels. Each of the four activities has a summer focus that will engage and excite all students.

I have included multiple versions of the activity, and I have included boxes or locks. In both

Physical Version Materials

- 3-digit lock
- 4-digit lock
- 5-letter lock
- 5-color lock
- multi-lock
- sandwich baggies
- large envelope (or)
- large escape box
- small escape box

- 5-letter lock-B T
- 4-digit lock-1 4 3
- 3-digit lock-1 5 5
- 5-color lock-(see)

- Clue 1-Print the Clue 1 cards. Store these in a sandwich baggie and store the baggie inside the large envelope.
- Clue 2-Print the Clue 2 cards. Store these in a sandwich baggie and store the baggie inside the large envelope.
- Clue 3-Print the Clue 3 cards. Store these in a sandwich baggie and store the baggie inside the large envelope. I need to create your own Clue 3 cards.
- Clue 4-Print one copy of the decoder wheel and store it in a sandwich baggie and store the baggie inside the large envelope.
- In this version, print the You Escaped Form. This will allow you to track

<https://www.tpt.com/product/escape-the-school>

## PHYSICAL VERSION DIRECTIONS

- Use one large manila envelope for each group. You may print the cover page and glue that page to the envelope. I like to laminate my envelopes for additional durability. I cut a slit in the opening after laminating.



- Clue 1-Print and cut out the Clue 1 cards. Store these in a sandwich baggie or envelope. Store these in the large envelope.
- Clue 2-You may either print 1 copy for each student or 1 copy for each group. Store these in the large envelope.
- Clue 3-Print and cut out the Clue 3 cards. Store these in a sandwich baggie and store the baggie in the large envelope.
- Clue 4-Either print 1 copy for each student or 1 copy for each group. Store these in the large envelope. Place a set of pattern blocks inside the large box for students to use to solve the problem.



- Place a You Escaped card in the small box. I may add tickets to the box for a little prize.
- Lock the small box with the 5-color lock.
- Place the small box in the large box.
- Place the multi-lock on the large box.
- Place the other three locks on the multi lock.

# PHYSICAL & DIGITAL VERSIONS

## ESCAPE GUIDELINES

1. Each member of the group. A
2. Do not help other groups.
3. Be cooperative and take turns opening boxes.
4. Don't ask for help or resources from other groups. Solving the problems is your goal.
5. You may use the hints provided. Be sure to use all two hints for each clue.
6. Do not force your way into working on a problem.

## MEASUREMENT ESCAPE

You and your friends explored the ocean on a new shallow water submarine. You've explored many different caves, viewed all kinds of animals, and even swam with a shark! However, when the submarine was heading above water it became stuck on a coral reef. You don't want to damage the coral reef, but the submarine is running out of oxygen. You need to escape quickly, but you'll need to find your way out of the coral reef. If you solve a series of measurement problems and riddles you'll be able to find your way out of the reef. You will work with your group to solve the problems and unlock the boxes that will allow you to find your way to the surface.

- Clue 1-Find the dimensions of two rectangles. These dimensions (place from least to greatest) provide the clue to the 4-digit lock. If there is a 2-digit number, DO NOT use the digit in the tens place.
- Clue 2-In this clue, you must find the measure of 5 angles. For four of the angles, you will need to use a protractor to find the measure of the angle. Add the measure of each of the angles together, and the sum will be the code for the 3-digit lock. This will lead you further away from the reef.
- Clue 3-Use the line plot to answer each of the five questions. Then, use the decoder wheel to determine the colors for the 5-color lock. Place the colors in the same order as the questions. If you have a question with two answers, you'll use one of the answers. Choose the one on the decoder wheel. When you complete this, you've almost escaped!
- Clue 4-Solve the measurement table. Crack the code to find your last mystery to solve. If you can do this, you will escape the coral reef and be on your way home.



## CLUE 1

Part 1-Find the dimensions of a rectangle with an area of 48 square inches and a perimeter of 38 inches. The dimensions will be part of your next code.

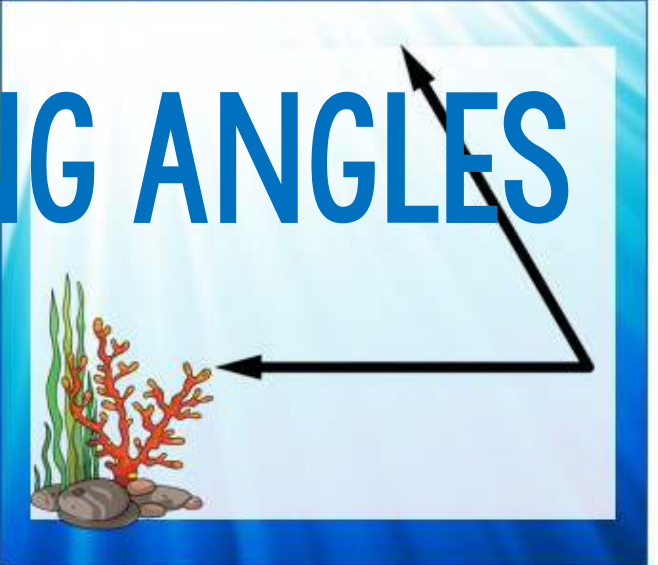
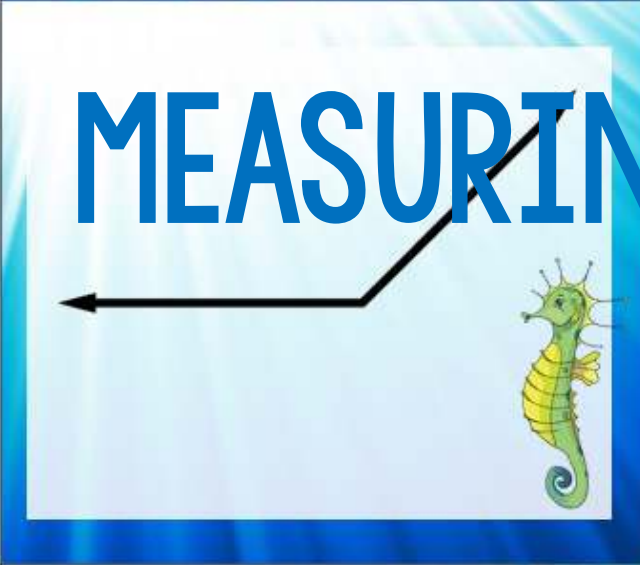
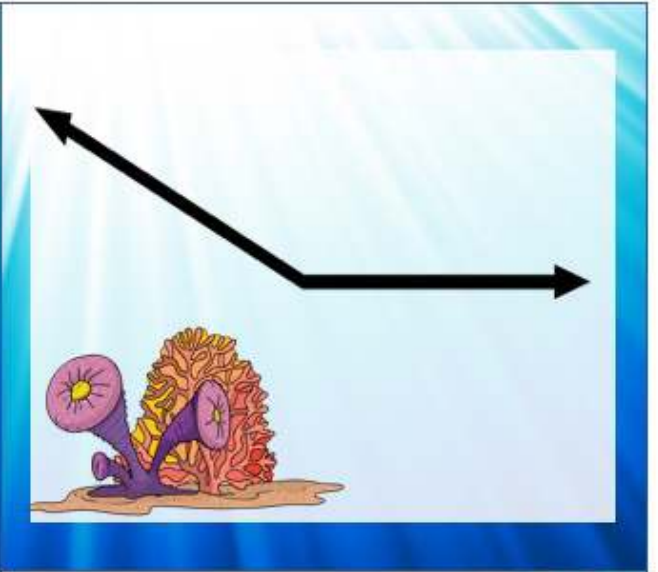
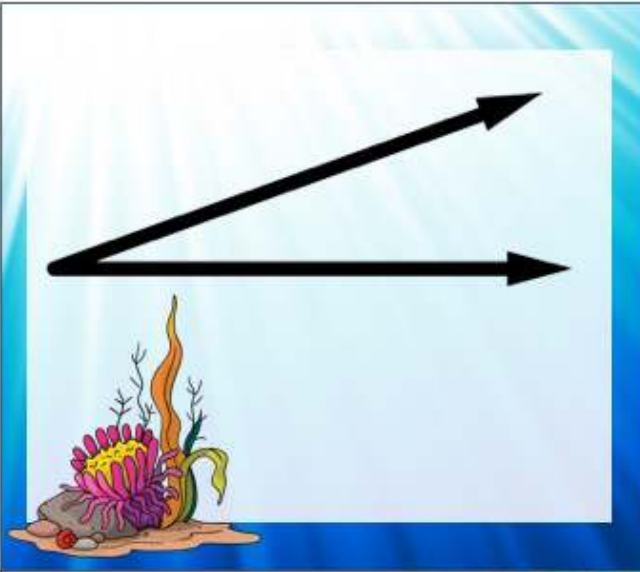
Part 2-Find the dimensions of a rectangle with an area of 54 square inches and a perimeter of 30 inches. The dimensions will be part of your next code.

## CLUE 1

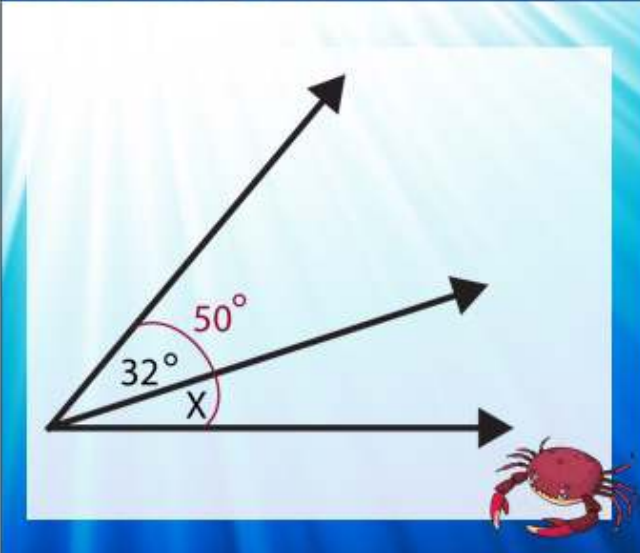
Part 1-Find the dimensions of a rectangle with an area of 48 square inches and a perimeter of 38 inches. The dimensions will be part of your next code.

Part 2-Find the dimensions of a rectangle with an area of 54 square inches and a perimeter of 30 inches. The dimensions will be part of your next code.

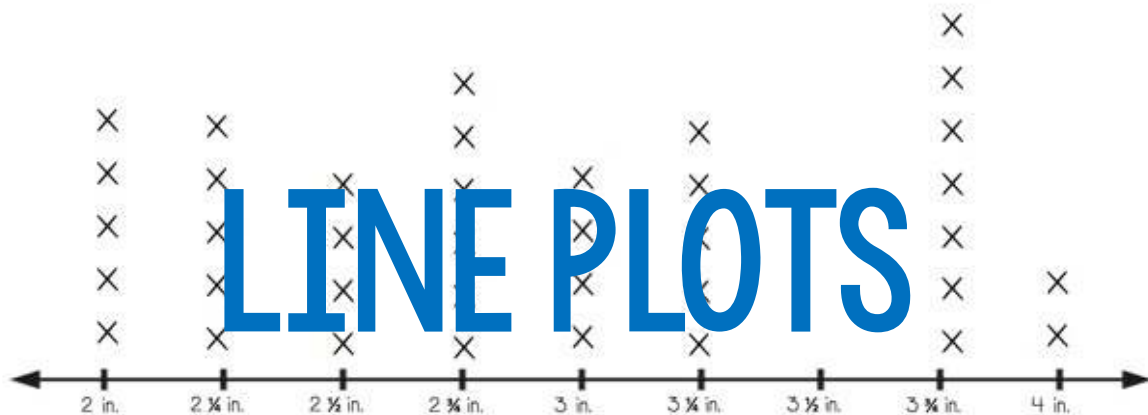
# CLUE 2



# MEASURING ANGLES



## CLUE 3-LENGTH OF FISH



How many fish were  $2\frac{1}{2}$  inches long?

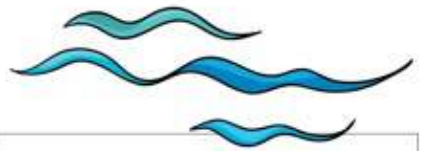
How many more fish were 3 inches than four inches long?

What length fish was the most common to see?

There were twice as many \_\_\_\_\_ inch fish as 4 inch fish.

What was the total length of all the fish smaller than 3 inches?

# CLUE 4



# MEASUREMENT CONVERSIONS

2 kilometers =  
\_\_\_\_\_ meters

5 meters =  
\_\_\_\_\_ centimeters

7 kilograms =  
\_\_\_\_\_ grams

3 pounds =  
\_\_\_\_\_ ounces

1 liters =  
\_\_\_\_\_ milliliters

8 hours =  
\_\_\_\_\_ minutes

10 minutes =  
\_\_\_\_\_ seconds

2 gallons =  
\_\_\_\_\_ quarts

5 quarts =  
\_\_\_\_\_ pints

6 pints =  
\_\_\_\_\_ cups

13 kilometers =  
\_\_\_\_\_ meters

26 meters =  
\_\_\_\_\_ centimeters

37 kilograms =  
\_\_\_\_\_ grams

23 pounds =  
\_\_\_\_\_ ounces

24 liters =  
\_\_\_\_\_ milliliters

12 hours =  
\_\_\_\_\_ minutes

30 minutes =  
\_\_\_\_\_ seconds

7 gallons =  
\_\_\_\_\_ quarts

4,000    10    1,300    3,700    600

480    2,600    2,000

48    720    12    7,000    368

2,400    8    1,800    500



# WHEELS TO PROVIDE LOCK FLEXIBILITY

## CLUE 3

