

# **Physics**

## **Displacement vs. Distance Worksheet**

Name: \_\_\_\_\_ Block: \_\_\_\_\_

Learning Target: I can solve distance vs. displacement problems by following a set of directions.

Use the map on the back of this page and follow the directions step by step. You will need two different colors.

Problem A:

1. Measure a distance 10 cm straight East and mark it as Point A.
  - a. Write down the Distance for Leg 1.
  - b. Measure and write down the Displacement.
2. Measure a distance 10 cm straight North and mark it as Point B.
  - a. Write down the Distance for Leg 2.
  - b. Write down the Total Distance Traveled from Home.
  - c. Using the ruler, measure and write down the Displacement.
3. Measure a distance 10 cm straight East and mark it as Point C.
  - a. Write down the Distance for Leg 3.
  - b. Write down the Total Distance Traveled from Home.
  - c. Using the ruler, measure and write down the Displacement.
4. Measure a distance 10 cm straight South. Where are you?
  - a. Write down the Distance for Leg 4.
  - b. Write down the Total Distance Traveled from Home.
  - c. Measure and write down the Displacement.

Problem B:

1. Measure a distance 12.5 cm straight North and mark it as Point A.
  - a. Write down the Distance for Leg 1.
  - b. Measure and write down the Displacement.
2. Measure a distance 2.5 cm straight West and mark it as Point B.
  - a. Write down the Distance for Leg 2.
  - b. Write down the Total Distance Traveled from Home.
  - c. Using the ruler, measure and write down the Displacement.
3. Measure a distance 15 cm straight South and mark it as Point C.
  - a. Write down the Distance for Leg 3.
  - b. Write down the Total Distance Traveled from Home.
  - c. Using the ruler, measure and write down the Displacement.
4. Measure a distance 5 cm straight East.
  - a. Write down the Distance for Leg 4.
  - b. Write down the Total Distance Traveled from Home.
  - c. Using the ruler, measure and write down the Displacement.