CC2: 7.1.1 Directions

7-2

Collecting Data:

1. Set up Notes:
    a. Title: Distance, Rate, and Time (CC2: 7.1.1)
    b. Essential Question: How can you create an equation when given distance, rate, or time?
2. Tape together several pieces of paper. Draw a starting line on the paper.
3. Lay a meter stick next to the paper.
4. Use one cell phone to record the toy, the meter stick, and other phone or timer.
5. Wind up the toy, and start it slightly behind the line.
6. When the toy passes the line, hit the "start" on your timer (or phone).

Graph

1. Use your recording to **create a graph**. The x axis should me time (in seconds) and the y-axis should be cm.

7-3

Find the unit rate of your toy, that is, how many centimeters does your toy travel per second. Explain how you figured it out.

7-4

Create an equation based on your graph. Use the rate (r), distance (d), and time (t). (Hint: Time is your x in this scenario and distance is your y. How would you create an equation just based on the graph ?

7-7

Use your equation, a table, or the graph to answer the following questions:

a. What distance would your toy travel in 9 seconds?
b. How far would your toy travel in 25 seconds?
c. How many seconds would it take your toy to travel 300 cm?