Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_ Week 3 Distance Learning

**MOTION**

***Use the resources on Mr. Hanna’s website to complete the following assignment.***

**VOCABULARY:**

1. REFERENCE POINT –
2. SPEED –
3. VELOCITY –
4. ACCELERATION –
5. SLOPE –

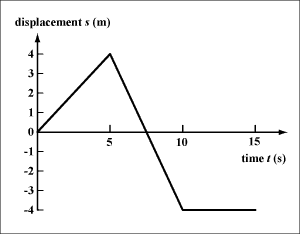
**SHORT ANSWER:**

1. How can you tell if an object is in motion or not?
2. Compare the concepts of “speed” and “velocity”.
3. List three ways an object can accelerate.
4. When you’re calculating acceleration and get a negative number, what does that tell you?
5. How can you determine the speed of an object by looking at a distance vs. time graph?

**PRACTICE PROBLEMS:**

1. How fast is a turtle moving if it crawls 1.5 m in 60 s?
2. What is the velocity of a car if it takes 5 s for it to drive 55 m?
3. What is the acceleration of a golf cart if it takes 4 s for it to speed up from 0 m/s to 10 m/s?

**INTERPRETING GRAPHS:**

1. Describe the motion of an object that produces the data shown here (*to the right*) on a distance vs. time graph.
2. Sketch a distance vs. time graph for an object that travels forward at a constant speed of 1 m/s for 5 s, stands still for 2 seconds, then begins forward again at a speed of 2 m/s.