Learning Target: I can Plan and carry out an investigation to analyze the motion of an object using mathematical and graphical models for acceleration.

Acceleration 101 Video Review Notes

1. What is Acceleration? _____

Positive acceleration is _____ Negative acceleration is _____
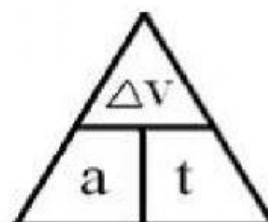
2. The Acceleration equation is

A = _____ ▲ v = _____ v_f = _____

V_i = _____ t = _____ Unit = _____

3. Use the following acceleration equation to solve the practice problems:

$$a = \frac{v_F - v_i}{t}$$

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Practice Problem 1 – What is the acceleration of a car that goes from rest to 25 m/s in 5.0s?

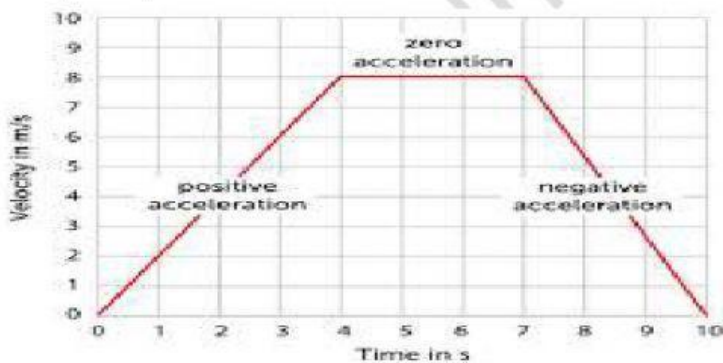A = _____ v_f = _____ v_i = _____   t = _____

Practice Problem 2 – While walking to school, you approach an intersection and slow down from 2 m/s to a stop in 3s. What was your acceleration during this time interval?

A = _____ v_f = _____ v_i = _____   t = _____

Check for Understanding – As a shuttle bus comes to a normal stop, it slows from 9.00 m/s to 0.00 m/s in 5.00s. Find the average acceleration of the bus.

A = _____ v_f = _____ v_i = _____   t = _____
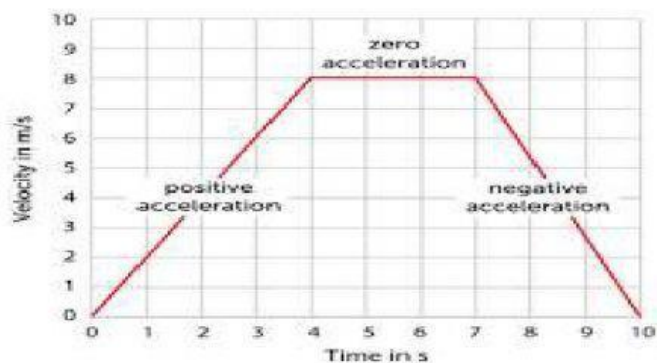
Graph Interpretations

1. At what point is there zero acceleration? _____

2. At what point is there negative acceleration? _____

3. At what point is there positive acceleration? _____

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Graph Interpretations – Calculating acceleration (follow and write along with the video on this section)

Write and answer the following questions for your graph in your notebook:

1. What was the amount of acceleration at 4 seconds?

2. What was the amount of acceleration at 7 seconds?

3. How much acceleration was there from 4 seconds to 7 seconds?

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