

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



Scan the QR code to watch the video

Acceleration 101 Video Review Notes

1. What is Acceleration? _____

Positive acceleration is _____ Negative acceleration is _____

2. The Acceleration equation is

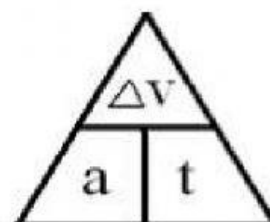
A = _____  v = _____ v_f = _____

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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 **LIVEWORKSHEETS**

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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

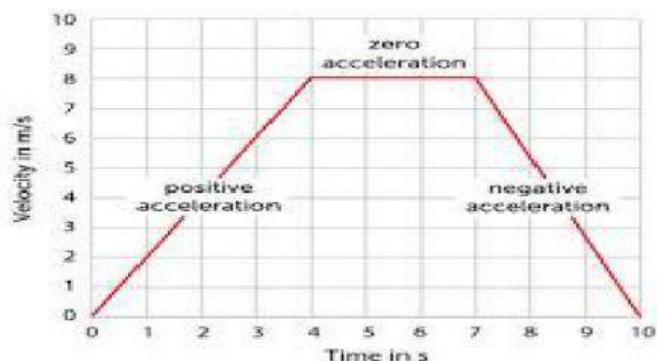


1. At what point is there zero acceleration? _____
2. At what point is there negative acceleration? _____
3. At what point is there positive acceleration? _____

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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?

Scan the QR Code to take the Quiz!



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