

Define frame of reference and know what it means to use a frame of reference.

Draw a distance-time graph and be able to find speed using the slope.

Distance	Time
0	0
5	2
10	4
15	6
20	8
25	10

Draw a speed-time graph and be able to find acceleration using the slope.

Speed	Time
0	0
2	1
4	2
6	3
8	4
10	5

What are the differences between a distance-time graph and a speed-time graph?

Define velocity and know how to use the formula. Example: A horse and buggy traveled 30 miles in 2 hours, stopped for an hour, and then 40 miles in the next 3 hours. What was the horse and buggies speed during each interval, and what is the averages speed for the trip?

What is the difference between speed and velocity?

Define displacement and describe how it is different than distance traveled.

Define acceleration (both positive and negative). Give examples of objects accelerating.

What is the formula for acceleration? (Be able to use it)

What is the value of acceleration due to gravity?

Distinguish between instantaneous, average and constant speed.

If Tim kept a constant acceleration of 3 m/s^2 for 60 seconds, how fast would he be going after a minute and starting from rest?

How long does it take to go 30 km if you travel at a constant speed of 45 m/s?

This time I travel at 25 m/s. How far do I go in 30 seconds?