Class____ Date _____

Chapter 11 Motion

WordWise

Complete the sentences by using one of the vocabulary words below.

acceleration speed linear relative motion frame of reference nonlinear vector free fall velocity

distance average speed resultant vector

An expression for <u>acceleration</u> is $(v_f - v_i)/t$.

A quantity that has both magnitude and direction is called a(n) vector .

The total distance traveled divided by the total time is <u>average speed</u>

A speed-time graph in which data points form a straight line is an example of a(n) _____ graph.

Common units for _____ include meters per second (m/s).

In order to accurately and completely describe the motion of an object, a(n) frame of reference is necessary.

You can determine ______ by measuring the length of the actual path between two points in space.

Two or more vectors combine to form a(n) resultant vector

Objects in _____ accelerate at 9.8 m/s².

A curve often connects data points on a(n) _____ graph.

Together, the speed and direction in which an object is moving are called velocity

Movement in relation to a frame of reference is <u>relative motion</u>