

Acceleration

- ___ 1. What is acceleration?
 - a. change in velocity divided by the time it takes
- ___ 2. When is an object accelerating?
 - b. the rate of change in speed and/or direction
- ___ 3. What is the difference between positive and negative acceleration?
 - c. m/s and km/s
- ___ 4. How is acceleration calculated?
 - d. the way speed is changing speeding up versus slowing down.
- ___ 5. Two ways the unit for acceleration to be written.
 - e. when it changes speed or direction
 - f. km/s^2 and km/s/s
- ___ 6. What the slope of a velocity-time graph indicate?
 - g. the speed at which an object is traveling

7. An inline skater traveling in straight line goes from 3m/s to 9m/s in 3 second. What is the acceleration?

$$\frac{\text{ending velocity} - \text{beginning velocity}}{\text{time}} = \text{unit (could be more than one correct unit)}$$

m s m/s m/s/s m/s^2

Drag and drop to identify the graph.

negative
acceleration

constant
speed

positive
acceleration

