

Name: _____

Period: _____

Speed (S) or Velocity (V)	Scalar (S) or Vector (V)	Mass, Time, Distance, Velocity, or Acceleration?
<input type="checkbox"/> A bike goes 25 m/s toward main street. <input type="checkbox"/> A person walks 4 mph. <input type="checkbox"/> A plane flies 200 m/s. <input type="checkbox"/> A bird flies 100 mph due south.	<input type="checkbox"/> 40 mph toward Dallas. <input type="checkbox"/> 3 m/s ² to the left. <input type="checkbox"/> 10 meters up the hill. <input type="checkbox"/> 12 meter per sec ² . <input type="checkbox"/> Direction matters. <input type="checkbox"/> No direction is needed	<input type="checkbox"/> 2 hrs <input type="checkbox"/> 5 sec <input type="checkbox"/> 8 kg <input type="checkbox"/> 3 m/s <input type="checkbox"/> 9 mph <input type="checkbox"/> 4 m/s ² <input type="checkbox"/> 6 mph/sec <input type="checkbox"/> 12 m <input type="checkbox"/> 1 in
<i>Accelerating? Yes, No, or Maybe?</i>		
<input type="checkbox"/> At constant velocity. <input type="checkbox"/> Going 5 m/s then going 3 m/s. <input type="checkbox"/> A car going around a corner. (see graphic at right). <input type="checkbox"/> At constant speed. <input type="checkbox"/> Stopping. <input type="checkbox"/> A car at rest.		

Object A

Object B

Object C

Object D

Choose which of the above applies to the following

Constant speed. Acceleration = 0.
 Positive acceleration.
 At constant velocity.
 Accelerating.
 Decelerating.

Object A accelerates at 10 m/s²; Object B accelerates at 5 m/s².

- Which one will go faster?
- Which one will take more time to reach a high speed?
- If they start at rest, which one will reach 40 m/

Sample from page 2
 "Acceleration" Unit 6no2