

Name: _____

Description of Motion

- 1) What is motion?
 - 2) What is mechanics?
 - 3) Mechanics is made up of two different categories. What are they and how are they different?
 - 4) What must change in order for one object to be in motion with reference to another?
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- 5) Which of the following are in motion in reference to each other? (in motion **OR** not in motion)
How do you know?
 - a) Two golf carts are traveling at the same speed and in the same direction along a straight level path.
 - b) Two runners moving around a circular track at the same speed.
 - c) A tree branch with a ball on the end of a rope swinging back and forth.
 - d) Two cars driving down straight road, one is traveling at 40km the other at 60 km.
 - e) The engine of a freight train is pulling 60 cars around a gradual curve. Is the engine in motion in reference to the last car?