

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

### Review #1 – Inertia

1. Define Inertia: \_\_\_\_\_  
\_\_\_\_\_
2. Tonight the atmosphere has very little thermal inertia, so when the sun goes down, what will happen to the temperature? \_\_\_\_\_
3. How can Inertia be used to travel from the earth to Mars in the cheapest way possible? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. Provide an example of Inertia in a basketball game. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
5. What is the speed of an object at rest? \_\_\_\_\_
6. We can mathematically measure inertia with which of the following?  
a. Force                      b. Momentum                      c. Acceleration                      d. Gravity
7. A 0.5kg baseball is hit at a constant speed of 25 meters per second. What is its Inertia? Show Your Math.
8. During the fall migration, a hummingbird can travel 200 miles every day. How fast is this in miles per hour? Show your Math.
9. What is the difference between speed and velocity? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10. Which line segment on this graph to the right represents an object that is not moving?

- |          |          |
|----------|----------|
| a. A – B | c. C – D |
| b. B – C | d. D – F |

