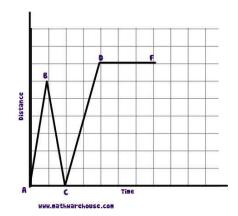
Name:	
Date:	
Period:	

Review of Newton's Laws

- 1. Provide an example of Inertia in a basketball game.
- 2. What is the speed of an object at rest?
- 3. We can mathematically measure inertia with which of the following?
 - a. Force b. Momentum c. Acceleration d. Gravity

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

a. A - B c. C - Db. B - C d. D - F



5. When a hockey puck is at rest on an ice rink all the forces acting upon the puck are said to be . . .

a. Equal b. Supportive c. Balanced d. Excessive

- 6. When a player shoots the hockey puck, the forces are now referred to as ...a. Changedb. Unbalancedc. Equalizedd. Inertial
- 7. The hockey puck has a mass of 0.15kg and is accelerated at a rate of 14m/s², how much force was applied to the puck? Show Your Math.

More questions on the back

9. In space there is noting for a rocket to push off of, so it must use Newton's Third Law to change direction, explain how to do that.

Imagine tw	vo skaters facing each other on a friction-less ice rink. One skater has a
	They toss the ball between each other 5 times. What happens to the two
skaters?	
Diagram yo	bur answer:

11. An astronaut is working on the International Space Station (ISS) during a spacewalk. She places a wrench half way between herself and the ISS. What will happen to the wrench? Explain.

$Fg = m_1 m_2/d^2$

12. Using the formula for gravity, calculate the force of gravity between two objects 10 meters apart. One object has a mass of 30kg, the other's mass is 5kg. Show your Math.

13. If 2 objects are 1000 meters apart and have a force of gravity between them of 20 Newtons, what will happen to the force when the objects are moved to 500 meters apart?