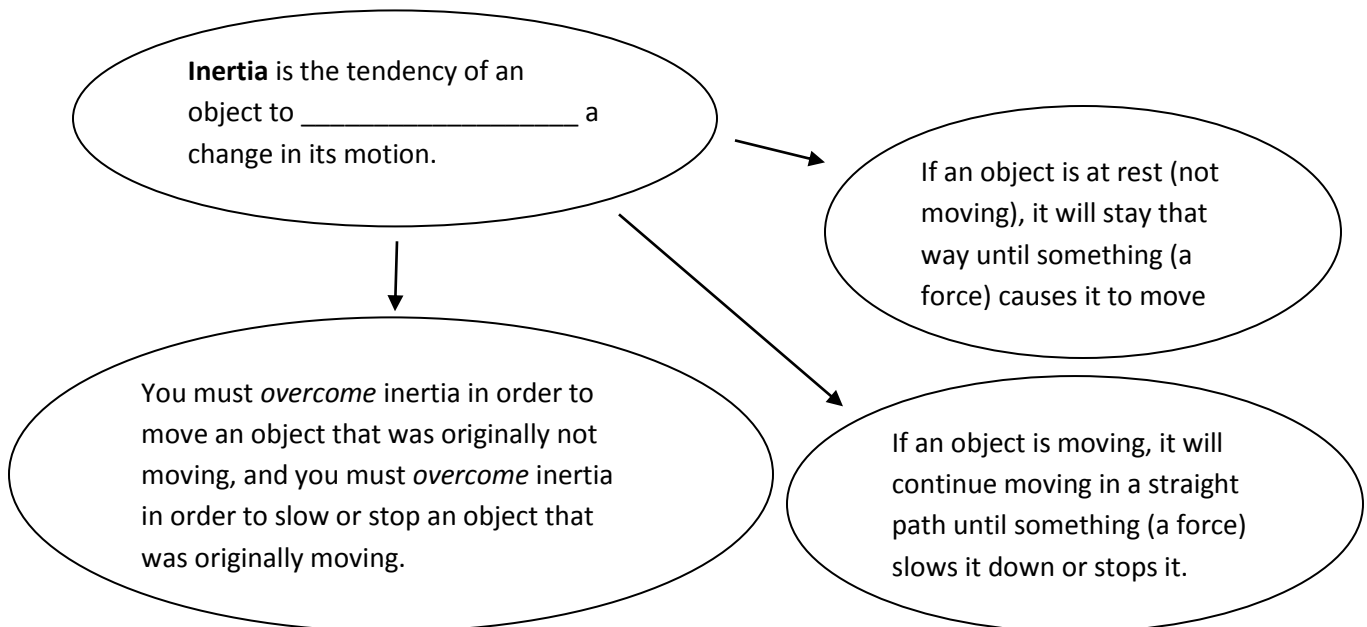


Name: _____ Period: _____ Date: _____



Isaac Newton was an English scientist, astronomer, and mathematician who lived from 1642 - 1727. He made many observations about the world around him, which eventually led him to create three basic principles about motion that we now call Newton's Laws of Motion.

Newton's 1st Law of Motion: An object _____ will stay _____, and an object _____ will stay _____, until an outside _____ acts on the object. (The 1st law is also called the Law of Inertia.)





An object at rest tends to stay at rest and an object in motion tends to stay in motion, unless the object is acted upon by an outside force.

This means that if you leave a ball on a table overnight, the ball will be in the same place where you left it when you return in the morning unless something or someone has made it move. If you roll the ball, it should continue moving at the same speed in a straight line until a force makes it change. A force called **friction** slows things down. Friction between the ball and the table will slow the ball down to a stop. If the ball rolls off the table, the force we call **gravity** pulls it downwards.

Watch the crash test videos...

- What happens to the crash test dummy when the car collides with the wall?
- Do you notice any bits of the car that come off when it collides with the wall? Where do they go?
- How does the crash test dummy illustrate Newton's 1st Law of Motion?