

Name: _____
Science 7

Date: 11/4/19
Forces and Motion NOTES

Aim: I can explain Newton's first law of motion.

Do Now:

Notes:

Newton's First Law: Law of Inertia

- An object in motion stays in motion unless an outside force acts upon it. An object at rest stays at rest unless an outside force acts upon it.

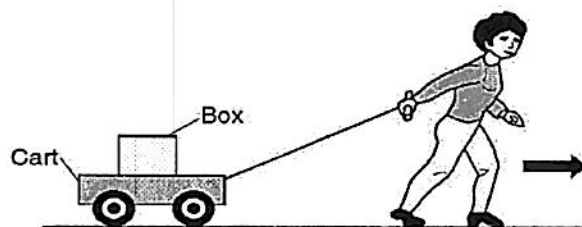
Inertia

- The property of matter by which it retains its state of rest or motion. This is directly related to its mass. Tendency to RESIST a change in motion.

Which has a greater amount of inertia? An empty shopping cart or a full shopping cart? Why?

A full shopping cart because it has more mass.

Base your answers to questions 83 and 84 on the diagram below and on your knowledge of science. The diagram represents a person pulling a cart with a box on it. The arrow represents the direction in which the person is moving.



83 Identify *one* force acting on the cart. [1]

Gravity, friction, pulling

84 Explain why the box may continue to move forward if the cart suddenly stops moving. [1]

The box is already in motion