

Dynamics Packet 1: Answer Key

Inertia and Mass

Read from Lesson 1 of the Newton's Laws chapter at The Physics Classroom:

MOP Connection: Newton's Laws: sublevel 1

1. Inertia is **the tendency of an object to resist changes in its state of motion. It is the "stubborn act of the will" to keep on doing whatever the object is doing.**
2. The amount of inertia possessed by an object is dependent solely upon its **mass.**

3. Two bricks are resting on edge of the lab table. Shirley Sheshort stands on her toes and spots the two bricks. She acquires an intense desire to know which of the two bricks are most massive. Since Shirley is vertically challenged, she is unable to reach high enough and lift the bricks; she can however reach high enough to give the bricks a push. Discuss how the process of pushing the bricks will allow Shirley to determine which of the two bricks is most massive. What differences will Shirley observe and how can this observation lead to the necessary conclusion?

By pushing the bricks, Shirley can feel the inertia - the tendency of each brick to resist a change in its state of being at rest. Bricks of different mass will offer different degrees of resistance to the force that attempts to disrupt its state of rest. The brick with the greatest mass will offer more resistance. Shirley will be able to feel this resistance.

4. Would Shirley Sheshort be able to conduct this same study if she was on a spaceship in a location in space far from the influence of significant gravitational forces? **Yes!** Explain your answer.

Objects on the spaceship would still have mass and be able to exhibit the same degree of inertia as they exhibit on Earth. While their weight (a gravity *thing*) will be significantly diminished, their mass and tendency to resist a disruption from their state of motion will be just the same as on Earth.

5. If a moose were chasing you through the woods, its enormous mass would be very threatening. But if you zigzagged, then its great mass would be to your advantage. Explain why.

A large-massed object (e.g., a moose) has considerable difficulty changing its state of motion. This is inertia. A change in direction is a change in the state of motion. By zigzagging, you can take advantage of the large inertia of the moose. You will make the turn but the moose will have a tendency to go straight. Now that's physics for better living!

6. Inertia can best be described as **D**.
 - a. the force that keeps moving objects moving and stationary objects at rest.
 - b. the willingness of an object to eventually lose its motion
 - c. the force that causes all objects to stop
 - d. **the tendency of any object to resist change and keep doing whatever it's doing**

7. Mass and velocity values for a variety of objects are listed below. Rank the objects from smallest to greatest inertia. **C < D < A < B**

$v = 2 \text{ m/s}$
m = 10 kg
Object A

$v = 8 \text{ m/s}$
m = 20 kg
Object B

$v = 4 \text{ m/s}$
m = 5 kg
Object C

$v = 3 \text{ m/s}$
m = 8 kg
Object D

Objects with the least mass have the least amount of inertia; objects with the most mass have the greatest amount of inertia. The velocity or speed of the object has nothing to do with inertia.

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