

PHY100S – The Magic of Physics – Pre-Class Quiz 1

A force is best described as:

1. Friction.
2. A thing associated with bodies.
3. An action on bodies. **CORRECT**
4. The inertia of a body.

The famous story about the apple falling on Newton's head is actually about Newton realizing that:

1. Apples fall because of gravity.
2. The same force that causes apples to fall also keeps the moon in its orbit about the earth. **CORRECT**
3. Galileo's Principle of Relativity is incorrect.
4. The laws of the universe are different on earth than they are in outer space.

Laplace's reflections on the consequences of the Newtonian worldview concluded that:

1. In principle all of the past and the future can be calculated. **CORRECT**
2. That matter is made of atoms.
3. Human sensory impressions are illusion.
4. The only forces in the world are gravity and contact forces.