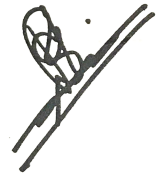


PHYSICS (GRADE-4)
CH - 15 Lesson 3



How are Force, Mass and Energy Related?

Mrs. Ruksana & Mrs. Farhana

Define.

- i. Gravity** - Gravity is a force that pulls objects toward each other.
- ii. Energy** - Energy is the ability to do work.
- iii. Work** - Work is the ability to move something. When work is done a change happens.
- iv. Kinetic energy** - Kinetic energy is the energy of motion.
- v. Potential energy** - Potential energy is the stored energy.

Q / A

1. Name the two factors that affect the force of gravity between two objects.

Ans. The mass and distance are the two factors that affect the force of gravity between two objects.

2. How do we measure force?

Ans. Force can be measured by using a spring scale.

3. What is the unit of force?

Ans. The unit of force is newton, named after Sir Isaac Newton.

4. Name the two types of energy.

Ans. i. Kinetic energy ii. Potential energy.

5. How is energy changed in the toy bird?

Ans. Winding the spring increases the potential energy. When the toy is released, the potential energy changes to kinetic energy as the bird moves.