

Chapter- 11

Force and Energy

WORKSHEET**I. Choose the correct answer.**

1. The force that helps us to walk.

- a. Frictional force
- b. Elastic force
- c. Buoyant force
- d. Mechanical force

2. Tweezers are examples of

- a. Inclined plane
- b. Lever
- c. Wheel and axle
- d. Wedge

3. Ramp is a/an

- a. Lever
- b. Wheel and axle
- c. Wedge
- d. Inclined plane

4. Which energy is produced by the vibration of an object?

- a. Electrical energy
- b. Light energy
- c. Heat energy
- d. Sound energy

5. Which energy is used to run a fan?

- a. Electrical energy
- b. Heat energy
- c. Light energy
- d. Sound energy

II. Fill in the blanks.

1. Energy can neither be created nor destroyed.
2. The pulley used for drawing water from a well is a fixed pulley.
3. Elastic force arises when a body deforms.
4. When the effort is in between the fulcrum and the load, it is a third class lever.
5. Force can change the shape of an object.

III. Change the underlined words to make the statement correct.

Gravitational

1. Buoyant force helps us to stay on the ground.

2. A wheel with a rod attached to it is known as a pulley.

Energy

3. Force is the ability to do work.

Geothermal

4. Solar energy is heat from within the earth.

5. The sun is the source of sound energy.

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IV. Complete the series

Electrical

1. energy : Washing machine :: Radio : Sound energy.

2. Flagpole : pulley :: Crane : Movable pulley.

3. Egg beater : Wheel and axle :: Screw jack : Screen

4. Water : Hydropower :: Muscles : Muscular force.

5. Fishing rod : Third-class lever : Nutcracker : first class lever.