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SR. SEC. SCHOOL

An English Medium Co.Ed. School | Science & Commerce



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SUBJECT: EVS

CLASS: 4

CHAPTER 28 (Work, Force And Energy)

Learn and write the following hard words-

1. Direction
2. Magnetic force
3. Energy
4. Windmill
5. Petrol
6. Electrical
7. Swing
8. Distance
9. Applied
10. Ability
11. Muscular
12. Elastic
13. Mechanical
14. Gravitational

Learn and write the following book exercises-



EXERCISES

(Use Cordova Smart Class Software on the smart board in class to do these exercises.)

A. Tick (✓) the correct answers.

- An apple falling from a tree is due to force.
 (a) gravitational (b) magnetic (c) elastic
- The force applied with the help of tools is called force.
 (a) muscular (b) mechanical (c) elastic
- We get solar energy from the
 (a) clouds. (b) moon. (c) sun.
- Refrigerators work on energy.
 (a) heat (b) electrical (c) sound

B. Fill in the blanks.

- Force can change the direction of a moving object.

- The force applied by a magnet is called magnetic force
- Energy is the ability to do work.
- Wind energy can rotate the blades of a windmill

C. Name the types of energy used in the following:



1. solar energy.....



2. sound energy.....



3. wind energy.....

Learn and write the following questions and answers-

Very short answer questions.

- Name 2 fuels.**
Coal and Petrol.
- Which object can generate electricity from wind energy?**
Windmill.
- Name four sources of energy.**
Wind energy, electrical energy, water energy and solar energy.

Short answer questions.

1. Describe the effect that force produces in each of the following examples.

- (a) Pressing a plastic ball
- (b) Pushing a moving swing
- (c) Catching a moving ball
- (d) Hitting a ball with a cricket bat

- (a) Pressing a plastic ball – shape of the ball changes.
- (b) Pushing a moving swing – the speed of the swing changes.
- (c) Catching a moving ball – speed and motion of the ball changes.
- (d) Hitting a ball with a cricket bat – the direction of the ball changes.

2. When is work said to be done?

Work is said to be done only when a force moves a body through a distance.

3. What is meant by (a) force (b) energy?

- (a) Force is a push or pulls applied on a body.
- (b) Energy is the ability to do work.

Long answer questions.

1. Describe the different kinds of forces.

Forces are of five different kinds.

(a) **Muscular force:** This force uses muscles in our arms to push a swing or catch a moving ball.

(b) **Magnetic force:** The force with which a magnet attracts any iron objects towards it is called magnetic force.

(c) **Elastic force:** This force is required to stretch the rubber strip of the catapult to apply force on the stone.

(d) **Mechanical force:** The force applied with the help of tools is called mechanical force.

(e) **Gravitational force:** The force with which the earth pulls any object towards it is called gravitational force.

2. Discuss 4 forms of energy.

The four forms of energy are:

(a) **Muscular energy:** The energy stored in the muscles of human beings or animals is called muscular energy. This energy is used to push or pull an object.

(b) **Wind energy:** Moving air is called wind and wind possesses energy called wind energy. Wind energy can be used to rotate the blades of a windmill. It is used to generate electricity and draw underground water

(c) **Water energy:** Flowing water or moving water has energy in it. Falling water from dams is used to rotate turbines to generate electricity.

(d) **Heat energy:** Energy present in a hot body is called heat energy. It is obtained by burning fuels, like wood, coal and petrol. The heat produced by burning petrol in car engine provides the energy needed to run the car