

**Grade 4  
Science****Force, Work and Energy****A Choose the correct option.**

1. A moving body slows down or stops on its own due to \_\_\_\_\_ force.  
a. Gravitation      b. Mechanical      c. Frictional      d. Elastic
2. Fruits fall down trees and not go up because of  
a. Gravitational      b. Magnetic      c. Frictional      d. Elastic
3. \_\_\_\_\_ is ability of a body to do work.  
a. Energy      b. Simple machines      c. Gravity      d. Force
4. \_\_\_\_\_ trap the solar energy to prepare food.  
a. Animals      b. Insects      c. Plants      d. Birds
5. Move the table through a distance, then \_\_\_\_\_ is said to be done.  
a. Work      b. Force      c. Energy      d. Muscle
6. How many types of simple machines are found?  
a. Four      b. Five      c. Six      d. Seven
7. Which of the following force is used to lift the school bag?  
a. Mechanical      b. Gravitational      c. Muscular      d. Frictional
8. A bow uses \_\_\_\_\_ of the bow string to shoot an arrow.  
a. Frictional      b. Electrical      c. Mechanical      d. Elastic
9. In hydropower station, energy of moving water change to \_\_\_\_\_ energy.  
a. Frictional      b. Electrical      c. Mechanical      d. Wind
10. In which of the following activity is work done?  
a. Changing the position of a sofa      b. Reading a newspaper  
c. Pushing a wall      d. Both a & c

**B Match the following.**

Column 1	Column-2
1. energy obtained from the sun	a. chemical energy
2. energy present in the earth' s interior	b. wind energy
3. energy generated due to the force of moving air	c. atomic energy
4. energy obtained from burring fuels	d. solar energy
5. energy obtained from splitting an atom	e. geothermal energy

**C Write one word answer.**

1. Energy released by splitting of atom. \_\_\_\_\_
2. Our main source of energy, it gives us heat and light energy and help us to survive on the Earth. \_\_\_\_\_
3. He was an Indian scientist known for his work on Indian Nuclear Programme. \_\_\_\_\_
4. Scientific name of human being. \_\_\_\_\_
5. He built the first electricity power plant. \_\_\_\_\_
6. Energy you get burning fuels. \_\_\_\_\_

**D Define.**

1. Lever:- \_\_\_\_\_  
\_\_\_\_\_
2. Pulley:- \_\_\_\_\_  
\_\_\_\_\_
3. Screw:- \_\_\_\_\_  
\_\_\_\_\_

## Answers

A.

1. Frictional
2. Gravitational
3. Energy
4. Plants
5. Work
6. Six
7. Muscular
8. Elastic
9. Electrical
10. Both a & c

B.

1. d
2. e
3. b
4. a
5. c

C.

1. Atomic energy
2. Sun
3. Homi Jehangir Bhabha
4. Homo sapiens
5. Thomas Edison
6. Chemical Energy

D.

1. A lever is a simple machine consisting of a rigid rod fixed to a pivot about which it can rotate.
2. Pulley is a simple machine and comprises of a wheel on a fixed axle, with a groove along the edges to guide a rope or cable.
3. An inclined plane wrapped around a shaft is known as a screw.