

November month notes

Ln. 10 Force, work and Energy

I. Technical Words:

1. Geothermal Energy:

Energy from the hot interior of the Earth

2. Work:

When force is applied on a body to make it move through a distance.

II Short Answers:

1. How is force useful to us?

Force is used to

* Move a body

* Stop a moving body

* Change the direction or shape of the body.

2. How can we calculate work done?

Work done can be calculated by the following formula

Work done = Force applied on an object × Distance moved by the object.

3. List out the different sources of energy.

* Most of our energy comes from the sun directly or indirectly.

* The atom and the hot interior of the earth are two other important sources of energy.

III Long Answers:

1. What are the six types of simple machines? Give one example of each.

Type of simple machine	Examples
1. Lever	A pair of scissors, a bottle opener
2. Inclined plane	A slide
3. Screw	A nail with grooves
4. Wedge	Axe, knife
5. Wheel and axle	A steering wheel
6. Pulley	Cranes

2. Name the different sources of energy.

i) Solar Energy:

The energy that we get from the sun.

(ii) Chemical Energy:

Fuels like coal, oil and wood have chemical energy.

(iii) Atomic Energy:

Atomic energy comes from splitting of an atom.

(iv) Geothermal Energy:

The hot interior of the earth gives

geothermal energy.

(v) Wind and water energy:

We also get energy from wind and water to generate electricity.

IV Hots :

1. Energy can be changed from one form to another. How?

* When we beat the drum our muscular energy is changed into sound energy.

* In electric motors electrical energy is changed into mechanical energy.

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