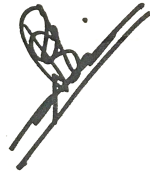


PHYSICS (GRADE-4)
CH - 16 Lesson 1



What is Machine?

Mrs. Ruksana & Mrs. Farhana

Q/A

1. How do you use force to do work?

Ans. Pushing or pulling is needed to do a work. This means, we use force to move an object or make a change.

2. Name some simple machines.

Ans. Lever, pulley, inclined plane, wheel and axle, wedge and screw are some examples of simple machine.

3. What is a pulley? How does a fixed pulley help to lift a load?

Ans. A pulley is a wheel with a rope, wire or chain around it.

A fixed pulley changes the direction of the force so that when the rope is pulling down, the load is lifted up.

4. What is lever?

Ans. A lever is a long bar with a support. It makes work easier.

5. Explain fulcrum, load and Effort.

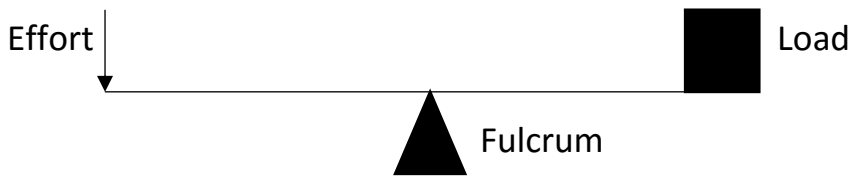
Ans. Fulcrum - It is the support on which a lever rests.

Load- It is the object that is to be lifted or moved.

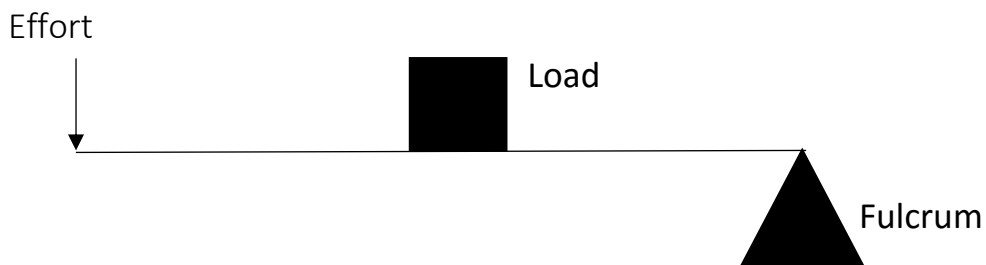
Effort – Effort is the push or pull (force) on the bar that makes the load move.

6. Describe the three types of lever.

Ans. i. Class 1 lever- The fulcrum is in the middle. It means, the fulcrum is between the effort and the load. For example: see-saw, pliers, scissors.



ii. Class 2 lever- The load is in the middle. It means, the load is between the fulcrum and the effort. For example: nut cracker, bottle opener.



iii. Class 3 lever - The effort is in the middle. This means, the effort is between the fulcrum and the load. For example: fishing rod.

