

2. What are the effects of force?

Ans: The effects of force:

- a) Force can move an object.
- b) Force can stop a moving object.
- c) Force can change the direction of motion of an object.
- d) Force can slow the motion of an object.
- e) Force can change the shape and size of an object.

3. Define contact force and non contact force.

Ans: Contact force: The forces in which there is ~~no~~ direct contact between the surfaces of the objects is called contact force.

Ex- frictional force, Muscular force etc.

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Non-contact force: The forces in which the surfaces of the objects are not in contact are called non-contact forces.
Ex- Gravitational force, magnetic force etc.

8. Define force of friction.

Ans:- The force which opposes motion and always acts in a direction opposite to the direction of motion is known as force of friction.

12. Disadvantages of friction:

a) Friction opposes motion: ~~When~~ When an object is moved, it ~~stop~~ stops after

a) Friction opposes motion: A lot of energy is wasted to overcome the force of friction before moving.

b) Friction causes wear and tear: The moving parts of a machine wear out and its life reduces as friction causes wear and tear. Ex - tyres, moving parts of machines, shoe soles etc. wear out.

c) Friction produces heat. ~~When~~ When we strike two rocks, they catch fire. This is because friction produces heat. It even damages the moving parts of a machine.