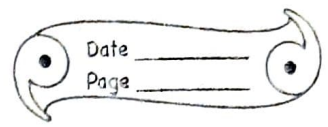


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chapter - force



Q → Explain along with examples that a force can

a) change the direction of motion of a moving body.

b) change the shape or size of the body.

Ans - (a) A force can change the direction of motion of a moving body :->

If a force is applied on a moving body in a direction other than its direction of motion, the direction of motion of the body changes.

For example - a player kicks a moving football to change its direction of motion, a player applies force with a hockey stick to change the direction of motion of the ball. Similarly, in tennis and badminton, the direction of motion of the ball or cock is changed by hitting it in the opposite direction.

(b) A force can change the shape or size of a body :->

when a force is applied on a body which is not allowed to move, it gets deformed, i.e. the shape or size of the body changes.

For example: - On squeezing a piece of rubber, its shape changes, on stretching a rubber string, its length increases.

