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# Ch-9 - Force and Laws of Motion

classmate

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## Home Assignment

1) State Newton's 2nd law of motion.

Ans, Newton's second law says that when a constant force acts on a massive, it causes it to accelerate, i.e., to change its velocity, at a constant rate. In the simplest case, a force applied to an object at rest causes it to accelerate in the direction of the force.

2) Define force. Name the S.I. unit of force and define it.

Ans, A "force" is a push or pull upon an object resulting from the object's interaction with another object. S.I. unit of force is "Newton". One newton is the force which acts on a body of mass 1kg and produces an acceleration of  $1\text{m/s}^2$ , i.e.,  $1\text{N} = 1\text{kg} \times 1\text{m/s}^2$ .