

Physics (New Book) - 9th Class Physics English Medium Chapter 3 Preparation

Q1. Define Change in shape

Ans 1: Applying a force can deform or change the shape of an object

Q2. Define Change in Direction

Ans 1: A force can change the direction of a moving object, such as in circular motion.

Q3. Define static friction.

Ans 1: The resisting force between the two surfaces before the motion starts is called the static friction

Q4. Define Starting or stopping Motion

Ans 1: a force can set a stationary object in motion or bring a moving object to a stop

Q5. Define terminal velocity of an object.

Ans 1: Terminal velocity is the constant velocity achieved by an object when the upward force of air resistance balances the downward force of gravity, causing the object to stop accelerating and continue falling at a constant speed.

Q6. What is tension force.

Ans 1: It is the force experienced by a rope when a person or load pulls it.

Q7. How does a cricketer reduce the impact of the ball when catching it.

Ans 1: A cricketer draws his hands back to reduce the impact of the ball by increasing the time over which the force is applied. This decreases the force experienced by the hands

Q8. How does the momentum of the apple and arrow change when an arrow penetrates into an apple.

Ans 1: When the arrow penetrates into the apple, the momentum of the apple changes in response to the arrow's force. Conversely, the apple applies an opposing force to the arrow, causing a change in the momentum of the arrow.

Q9. Define Change in speed

Ans 1: Change in Speed: a force can make an object move faster or slower.

Q10. What kind of changes in motion may be produced by a force.

Ans 1: A force can produce the following changes in motion.

change in speed
Change in direction
Change in shape
