

Do the Research

Let's boggle our brains

Sub : Science

Grade: IX

Date:

Name:

ID No.....

Topic: Force and Laws of Motion

Directions: Research the above topic and answer the following questions.

1. If action is always equal to the reaction, explain how a horse can pull a cart.

2. Arpita standing in a front of a window sees a stationary cart full of ripe mangoes. She could not resist temptation and jumps on to a cart with horizontal velocity of 5 m/s. If the mass of the cart is 3 kg and that of Arpita 40 kg; what is her velocity as the cart starts moving? Assume that there is no external unbalanced force on the system and the wheels of the cart are frictionless.

3. Why do you fall in the forward direction when a moving bus brakes to a stop and fall backwards when it accelerates from rest?
