Do the Research

Let's boggle our brains

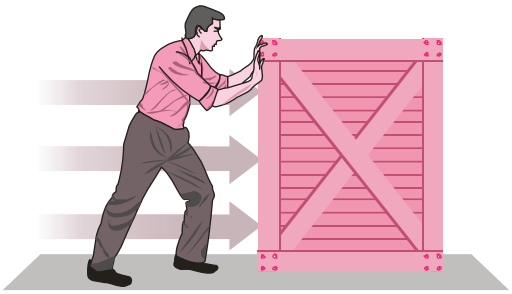
Sub : Science **Grade: IX** **Date: .....**

Name: ..... **ID No.....**

Topic: Force and Laws of Motion

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

1. Examine the picture:



Explain the second law of motion using this picture.

2. A large truck and a car, both moving with a velocity of magnitude v, have a head-on collision and both of them come to a halt after that. If the collision lasts for 1 s:

a. Which vehicle experiences the greater force of impact?

b. Which vehicle experiences the greater change in momentum?

c. Which vehicle experiences the greater acceleration?

d. Why is the car likely to suffer more damage than the truck?

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