Activity Worksheet

Challenging brain

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

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

If I Was A ... ? Worksheet

Pretend you are a light toy car of mass m.

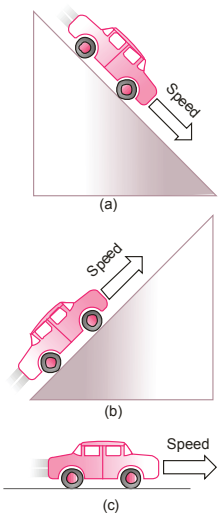
1. If a force (F) is applied by hand, you are accelerated. Suppose that, your acceleration is a. Now, when force is doubled, then what will be your acceleration?

2. Suppose your mass (m) is doubled by putting an identical toy car on top of you. What will your acceleration be if some force (F) is applied on you?

3. What is your momentum if you are moving with a velocity (v) on applying a force (F)?

4. When a force is applied on you, what are the two essential effects it can produce?

5. What happens to your speed in the following three cases?



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