Class-VIII Physics

## **Friction**

## **Factors Affecting Friction**

## ❖ FACTORS AFFECTING FRICTION

The force of friction depends upon the following factors:

- (i) Materials of the bodies in contact.
- (ii) Roughness of the surfaces in contact
- (iii) Force of friction is independent of the area of the two surfaces in contact.
- (iv) The limiting frictional force is directly proportional to the normal reaction.

Tie a string around a brick. Pull the brick by a spring balance. You need to apply some force. Note down the reading on the spring balance when the brick just begins to move. It gives you a measure of the force of friction between the surface of the brick and the floor.

Now wrap a piece of polythene around the brick and repeat the activity. Do you observe any difference in the readings of the spring balance in the above two cases? What might be the reason for this difference? Repeat this activity by wrapping a piece of jute bag around the brick. What do you observe?