

# VIDYA BHAWAN BALIKA VIDYAPEETH

## STUDY MATERIAL SCIENCE CLASS-VIII

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### ▸ Friction

#### **Increase of friction:**

- (i) Friction is desirable in some situations
- (ii) Friction is necessary for us, therefore friction is increased to accomplish some of important task.

Examples:

- (a) Treaded tyres of vehicle increase friction. Vehicle with treaded tyres provides more friction which gives better grip with the road.
- (b) Soles of shoes are treaded to increase friction between sole and the ground.
- (c) Javelin thrower rubs some powder on his palm to get better grip on the javelin.
- (d) Kabaddi players rub their hands with soil for a better grip of their opponents.

#### **Fluid Friction:**

- (i) Gases and liquids are generally known as fluid. Similar to solid, fluids also provide friction. The friction of fluid increases with the speed of object moving through it and speed of fluid.
- (ii) Objects which are made to move in fluid are made streamlined shape to reduce friction offered by fluid. The shape of aeroplane, ship, boat, birds and fish are made streamlined shape. A shape which is pointed on both ends and wide at the middle is called streamlined shape which facilitates easier movement through fluids.