

# VIDYA BHAWAN BALIKA VIDYAPEETH

## STUDY MATERIAL SCIENCE CLASS-VIII

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### ▸ Friction

#### Friction is a must as well as evil:

- ✧ Friction produces heat when we vigorously rub our palms together for a few minutes.
- ✧ Friction is responsible for wear and tear of various parts of machines.
- ✧ Friction decreases the efficiency of machines as a part of the machine's energy is lost in extra friction.
- ✧ Friction is responsible for writing, walking and transmitting energy.
- ✧ Friction is responsible for starting or stopping.
- ✧ Friction is used in gripping or holding an object with our hands.

So, we can say friction is a must as well as evil.

Friction is important for many of our activities.

Friction can be reduced by using:

- ✧ grease, oil, powder, ball bearing, and cushion of dry air between the moving surfaces.
- ✧ using anti-friction alloys.

Friction can be increased by making a surface rough.

The sole of the shoes and the tyres of the vehicle are treated to increase friction.