

Abhyas science
Ch- friction

- 1) Rolling friction is always smaller than sliding friction. this is the reason the wheels of automobiles are made circular in shape.
- 2) Example of smooth surface is
1) mirror, Ice, Glass, Marble
2) Example of rough surface is
sandpaper, Cement road.
- 3) Sprinkling of powder on the Carrom board sliding friction
- 4) Fluid friction be minimized by giving special shape called fluid friction the object which move the fluid like air and water.
- 5) Wear and tear of soles of our shoes is due to friction.

8) Main Causes of friction are -

- 1) The adhesion between body surface.
- 2) roughness of the surface.
- 3) deformation of bodies.

9) Object moving in fluid face the friction of fluid that opposes their motion. Streamlined shapes to reduce the fluid friction.

4) Rolling friction less than static friction because in rolling friction the surface area in contact is least and friction depends on surface area.

10) The water on a wet marble floor fills the microscopic irregularities on surface and hence present lesser frictional force.

11) Properties of friction.

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1) frictional force always acts parallel to two planes in contact with each other and in a direction opposite to that of relative motion of the two bodies.

12 If friction was absent, the Chalk deposit would not stick to the board and no mark would be left behind.

13 Fluid friction depends on object speed with respect to fluid.