

Advantages of Friction

- (i) The force of friction helps us to move on the surface of earth. In the absence of friction, we cannot think of walking on the surface.
- (ii) The force of friction between the tip of a pen and the surface of paper helps us to write on the paper.
It is not possible to write on the glazed paper as there is no force of friction.
- (iii) The force of friction between the tyres of a vehicle and the road helps the vehicle to stop when brake is applied. In the absence of friction, the vehicle skid off the road when brake is applied.
- (iv) Moving belts remain on the rim of a wheel because of friction.
- (v) The force of friction between a chalk and the blackboard helps us to write on the board.

Disadvantages of Friction

- (i) A significant amount of energy of a moving object is wasted in the form of heat energy to overcome the force of friction.
- (ii) The force of friction restricts the speed of moving vehicles like buses, trains, aeroplanes, rockets etc.
- (iii) The efficiency of machines decreases due to the presence of force of friction.
- (iv) The force of friction causes lot of wear and tear in the moving parts of a machine.
- (v) Sometimes, a machine gets burnt due to the force of friction between different moving parts.