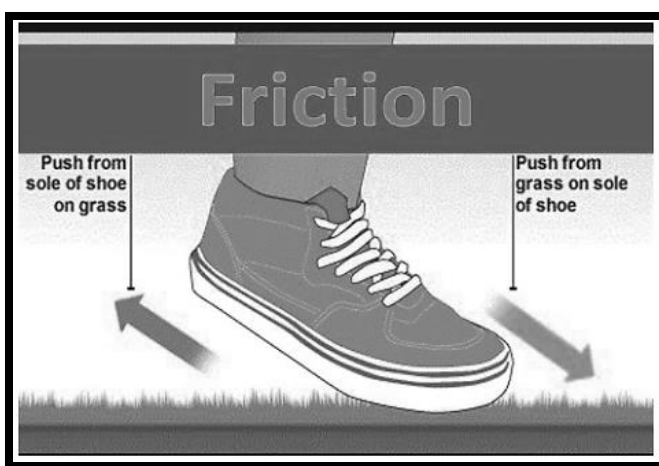


Friction

Advantages & Disadvantages of Friction

APPLICATIONS OF FRICTIONAL FORCES

1. We would not be able to walk if there had been no friction b/w the soles of our shoes and the ground.



2. If there had been no friction, the wheels of a car will slip instead of rotating and stop moving. For that we have to increase the friction by making the tyres corrugated to get better grip of tyres on the road. Also, the friction is increased.
3. When brakes are applied, the vehicle stops due to the force of friction b/w the brake lining and the drum.
4. In the absence of friction, we cannot write on a blackboard with a chalk stick because the chalk stick will slide off the board without leaving any mark on the board.

DISADVANTAGES OF FRICTION

1. **Wear and Tear** : In machine parts like gears, brakes when they come in contact with each other continuously, they wear out gradually, which should be replaced time to time.
2. Friction reduces efficiency of the machine.

3. Friction in machine produces heat and undesirable noise which damages the machine. To avoid excessive heating, water is circulated in machines generally.

