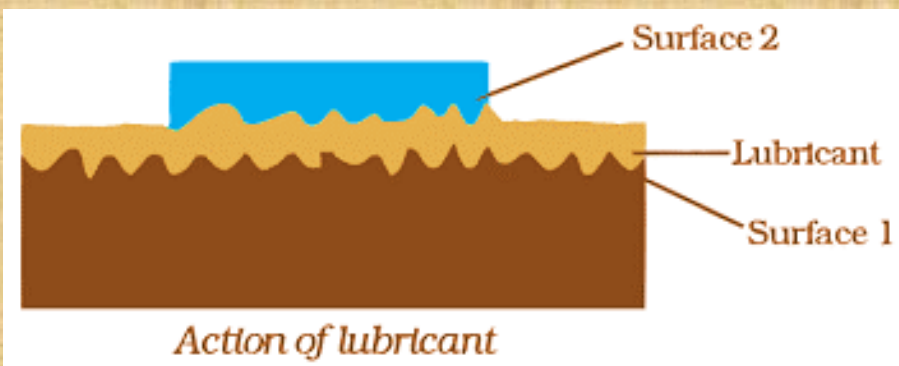
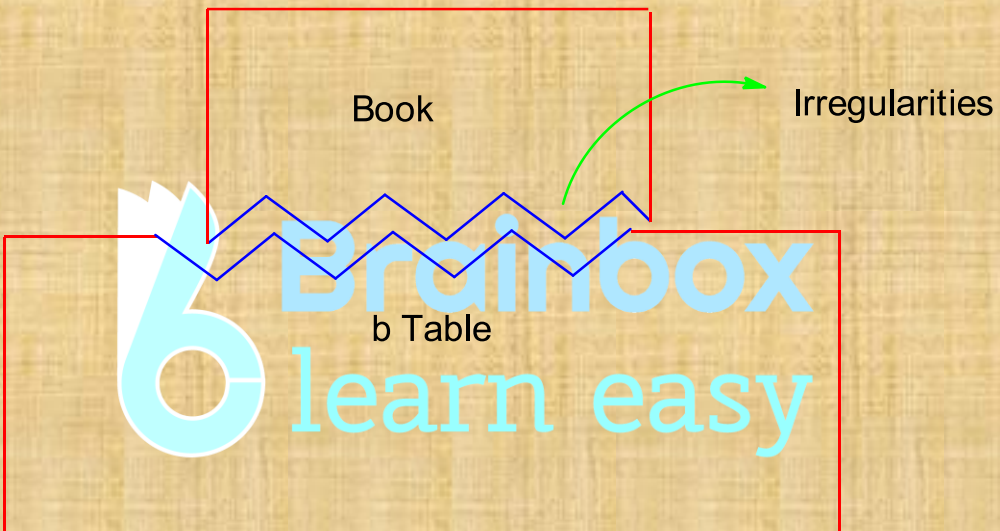


Chapter 12

FRICTION

Cause of friction:

- Friction is caused by irregularities on two surfaces, which are in contact.
- Even though surfaces [Here in above example book and table] appear very smooth but having large number of minute irregularities in them.



Uses:

1. Holding a pen, writing on a paper are due to friction.
2. Walking is due to friction. [On smooth surface walking is difficult because of less friction].
3. A nail is fixed in the wall due to friction.
4. Striking a matchstick on rough side of matchbox produces fire due to friction.
5. Pulling a bucket of water from well with the help of rope is due to friction between rope and hand.

Disadvantages:

1. Wear and tear of machines will takes place.
i.e. The life time of machine decreases.
2. Soles of shoes wear out due to friction.
3. Loss of energy and money takes place.
4. It also results in the production of heat, in case of machines the production of heat leads to wastage of energy.
5. It leads to noise pollution in some cases.