

## Homework

Exercise - B 13, 14

- Q List the effects of friction.
- Q Explain with example how friction opposes motion.
- Q 'Friction always acts in a direction opposite to the direction of motion. Justify the statement by giving an example.
- Q How can you prove friction produces heat? Give an example

### Answersheet

Exercise - B 13, 14

13 - Friction is that force which opposes the relative motion between the two surfaces that are in contact with each other.

14 - If we stop paddling our bicycle, it gradually slows down and ultimately it stops after travelling certain distance. This is due to frictional force between bicycle and ground.

Q - The effects of friction are?

- Friction opposes motion
- Friction produces heat
- Friction causes wear and tear
- Friction reduces efficiency

Q-Friction opposes relative motion between two bodies.

For example: If we roll a ball on the ground, it gradually slows down and after travelling a certain distance, it stops. The ~~regio~~ reason is that the force of friction between the ball and the ground opposes the motion of the ball and brings it to stop.

Q-Friction always acts in a direction opposite to the direction of motion. If we move the box to the right, the friction acts towards the left and if we move the box to the left, the friction acts ~~to~~ towards the right.

Q-Friction produces heat for example try rubbing our hands together at a quick pace we should feel heat!

• Friction between surfaces produces heat

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- Friction causes the molecules on surface of our hands to move faster.
- As the molecules move faster, the temperature of the object increases.