

Homework

1. Effects of friction are:

1. Friction opposes motion

2. Friction always acts in a ~~diff~~ direction opposite to the ~~diff~~ direction of motion

3. Friction produces heat

4. Friction causes wear and tear

2. Friction is a force that opposes motion between two touching surfaces. Frictional force opposes motion between two surfaces that are in contact. This causes a moving object to slow down and stop.

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

3. Friction always acts in a direction opposite to the direction of motion.

Example: If we move a box to the right, the friction acts towards the left and if we move the box to the left, the friction acts towards the right.

4.

Friction produces heat, it can be proved by the following example;

When we rub our hands together, we should feel heat. This is ~~due to~~ because friction between ~~su~~ surfaces produces heat. When ~~our~~ hands the molecules of our hands move faster, the temperature of the object increases. So, it produces heat.