

BRAIN INTERNATIONAL SCHOOL

Science Assignment

Class: VIII

July'21

Chapter-12: Friction

Read the passage given below and answer the questions that follow:

Friction is defined as the force which opposes the motion of an object on the surface it is in contact with. Friction has pros and cons such as friction makes it easy to walk on the roads without slipping which is the advantage for us. Whereas moving heavy objects becomes difficult because of the friction which is against us. Static friction, rolling friction, sliding friction, and fluid friction are types of friction.

1. Complete the sentence. Friction always _____
 - a. helps the motion
 - b. opposes the motion
 - c. both of these
 - d. none of these
2. Which one of these characteristics does a smooth surface has?
 - a. Less frictional force
 - b. More frictional force
 - c. Sometimes less and sometimes more force
 - d. All of above
3. Friction is a _____
 - a. Contact force
 - b. Non-contact force
 - c. Magnetic force
 - d. None of these
4. What kind of substances are known as lubricants?
 - a. Increase friction
 - b. Decrease friction
 - c. Increase or decrease friction
 - d. None of these
5. Fluid are _____
 - a. Gases
 - b. Liquids
 - c. Gases and liquids both
 - d. None of these

Q6. Why the automobile tyres are made corrugated and rough?

Q7. Why are spaceships provided with heat shield?

Q8. Explain two simple methods for reducing friction.

Q9. 'Friction is a necessary evil'. Explain this statement with the help of suitable examples.