

St. Andrews Scots School

Adjacent Navniti Apartments ,
I.P. Extension, Patparganj, Delhi – 110092
Session:2025 - 2026

Class: VIII

Subject: Science

Topic: Friction

Q.1. Define these term:

- a) Asperities
- b) Static friction
- c) Lubricant

Q.2. Fill in the blanks:

- a) Bodies of birds, fishes and ships are _____.
- b) Friction can also produce _____.
- c) All objects moving in fluids have _____ shape to reduce _____.
- d) Rough surfaces produce _____ friction than smooth surfaces.
- e) In many machines, friction is reduced by using _____.

Q.3. Write True or False against each statement:

- a) Friction is independent of the nature of surfaces in contact.
- b) A spring balance measures force.
- c) Friction can be reduced by using ball bearings in some machines.
- d) Friction can never be eliminated.
- e) Friction do not produce heat.

Q.4. Multiple choice questions:

- a) Friction is a
 - (i) non-contact force
 - (ii) contact force
 - (iii) magnetic force
 - (iv) electrostatic force
- b) Which of the following produces least friction?
 - (i) Sliding friction
 - (ii) Rolling friction
 - (iii) Composite friction
 - (iv) Static friction
- c) Friction always
 - (i) opposes the motion
 - (ii) helps the motion
 - (iii) both (a) and (b)
 - (iv) none of these

d) Friction can be reduced by using

- (i) oil
- (ii) grease
- (iii) powder
- (iv) all of these

e) Static friction is less than

- (i) sliding friction
- (ii) rolling friction
- (iii) both (a) and (b)
- (iv) none of these

Q.5. Answer the following questions:

- a) If we push the book on the table, it stops after sometime. Why?
- b) How does the friction depend on the nature of the surface?
- c) When the two surfaces are pressed harder, friction increases. Explain why?
- d) The sliding friction is slightly smaller than the static friction. Explain why?
- e) What do you mean by fluid friction? How can fluid friction be reduced?