

# St. Andrews Scots Sr. Sec. School

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Session: 2025-2026

**Class: VIII**

**Subject: Science**

**Chapter: Force and Pressure**

## Q.1. Multiple Choice Questions:

a) The pressure which is exerted by air around us is known as

- (i) force
- (ii) atmospheric pressure
- (iii) muscular force
- (iv) friction

b) A \_\_\_\_\_ exerted by an object on another is a force.

- (i) Push or pull
- (ii) Contact or non-contact force
- (iii) Pressure
- (iv) Magnitude

c) The force exerted by the earth to pull the object towards itself is called \_\_\_\_\_.

- (i) electrostatic force
- (ii) gravitational force
- (iii) muscular force
- (iv) contact force

d) Force changes the

- (i) motion of body
- (ii) speed of body
- (iii) shape of body
- (iv) all of these

e) A device used to measure atmospheric pressure is called

- (i) lactometer
- (ii) barometer
- (iii) hydrometer
- (iv) hygrometer

## Q.2.Fill in the blanks:

a) The body at rest is called \_\_\_\_\_ body.

b) The strength of a force is usually expressed by its \_\_\_\_\_.

c) \_\_\_\_\_ force is the force resulting due to the action of muscles.

d) Force of friction is an example of \_\_\_\_\_ force.

e) We apply force on \_\_\_\_\_ while walking.

**Q.3.State whether the given statements are true or false.**

- a) Force applied on an object in opposite directions add to one another.
- b) Pressure does not depend on area of contact.
- c) Muscular force is also known as contact force.
- d) Pascal is the unit of force.
- e) To move an object faster it has to be pushed or pulled repeatedly.

**Q.4. Answer in one word:**

- a) What is the name of the instrument used to measure atmospheric pressure?
- b) Name the force exerted on a ball of dough to make a flat chapati.
- c) What kind of force is an electrostatic force?
- d) What is a pull or a push acting on a body called?
- e) What is the SI unit of pressure?

**Q.5. Answer the following questions:**

- a) What is pressure? What is the relation of pressure with area on which it is applied?
- b) Why do sea divers wear specially designed suits?
- c) How do liquids and gases exert pressure?
- d) A force of 100 N is applied on an area of  $4\text{m}^2$ . Compute pressure being applied on the area.
- e) Why do people with high blood pressure sweat a lot?