

St. Andrews Scots School

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Class VIII (Session: 2026-2027)

Worksheet-6

Subject: Science

Chapter: Pressure, Wind, Storms And Cyclones

Q.1. Define these terms:

- i) Cyclone
- ii) Lightning conductor
- iii) Thunderstorm

Q.2.Fill in the blanks:

- i) _____ are large storms that form over warm ocean waters.
- ii) The layers of air surrounding the Earth are called the _____.
- iii) The pressure exerted by air on the surface of the earth is known as the _____.
- iv) The air pressure is higher in _____ balloon compared to _____ balloon.
- v) At night, wind blows from the _____ to the _____ in coastal areas. It is called _____.

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

- i) Force is pressure per unit area.
- ii) A safe position during lightning is near tall buildings.
- iii) A lightning conductor transfers the electric charge to the ground.
- iv) The India Meteorological Department (IMD) issues warnings, periodic alerts, and weather reports so that we remain updated about the weather.
- v) A difference in air pressure causes winds to blow.

Q.4. Multiple Choice Questions: Tick (✓) the correct options:

- i) During the daytime in coastal areas, sea breeze results because
 - (a) The land gets heated faster than the water
 - (b) The air above the land becomes warmer and lighter and rises to create a low-pressure
 - (c) The air from the high-pressure region above the sea blows to the low-pressure region over land
 - (d) All of the above

ii) A cyclone is caused by the spinning system of

- (a) Clouds
- (b) Winds
- (c) Rain
- (d) All of these

iii) A sudden flow of charges takes place, producing a bright flash of light called

- (a) lightning
- (b) thunderstorm
- (c) pressure
- (d) Cyclone

Q.5. Answer the following Questions:

i) Why is the base of a dam broader than the top?

ii) Why can the roof of a hut fly off in a strong storm?

iii) How is pressure caused inside our bodies?

iv) Why should we keep doors and windows open when high-speed winds blow over our houses?

v) If we apply a force of 100 N on a cardboard of area 2m^2 , calculate the pressure applied on the cardboard.