

8A

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Subject - science
class - 7th
chapter - 8th

Winds, storms and cyclones

(Book activity)

1) Fill the missing word in the blanks, space in the following statements:

- 1) Wind is moving air.
- 2) Winds are generated due to uneven heating on the earth.
- 3) near the earth surface warm air rises up whereas cold air comes down.
- 4) Air moves from a region of high air pressure to a region of low air pressure.

(NOTE BOOK)

2) suggest two methods to find out wind direction at a given place.

Ans ↓

① By seeing the direction of dry leaves released in the air.

2) By seeing the direction in which it is difficult to ride the bicycle.

3) State two experience that made you think that air exerts pressure (other than those give in the text).

Ans. → 1) when we fill air in the balloon, it becomes tight and if we try to fill more air balloon will get ~~burst~~ burst which proves air exerts pressure.

2) Blowing air can move curtains on door and window.

4) you want to buy a house. would you like to buy a house having window but no ventilator? Explain your answer.

Ans → It is not a good idea to buy a house without ventilators because warm air is lighter than cold air hence warm air passes out of your home through ventilator. Accordingly without ventilators; warm air will not pass out, and the house will remain warm.

5) Explain why holes are made in hanging banners and hoarding.

Ans → Blowing air passes through the hole and thus the banner will stand with less pressure.

6) How will you help your neighbours in case a cyclone approaches your village/town?

Ans → We can help our neighbours in case a cyclone approaches, by any of the following measures:

- 1) By helping them shift to a safer place.
- 2) By helping them to shift their animal, necessary household and vehicles to a safer place.
- 3) By calling emergency services such as fire station, police and medical centre.

7) what planning is required in advance to deal with the situation created by a cyclone. (4)

Ans → In advance to deal with the situation created by a cyclone we should take some following steps.

- 1) We should not ignore the warnings issued by the ~~met~~ meteorological department through TV, radio, or newspaper.
- 2) We should - make necessary arrangement to shift the essential household goods, domestic animals and vehicles, etc to safer places.
- 3) Avoid driving on roads through standing water, as floods may have damaged the roads.
- 4) Keep ready phone number of all emergency services like police, fire brigade, and medical centres should be handy.

8) $\frac{\text{Book}}{\text{X}} \times \frac{\text{activity}}{\text{X}}$

8) which one of the following place is unlikely to be affected by a cyclone

Ans → (Amritsar)

g) which of the statements given below is correct. (5)

Ans → In winter the winds flow from the land to the ocean.

(Additional questions)

(NOTE BOOK)

Define the following.

1) Thunderstorm

The swift movement of the falling water droplets along with the rising air create lightening and sound. The event is called thunderstorm.

2) cyclone

The formation of very low pressure system with very high speed wind revolving around it in water bodies like sea.

This event is called cyclone.

3) Tornado

→ The tornado is a violent storm with a column of rapidly rotating winds having the experience of a dark funnel shaped cloud that reaches from the sky to the ground.