

Weather and climate



Weather and climate have a great impact on our daily lives and form an important part of news all over the world. This worksheet is on weather and climate where three important elements – temperature, pressure and winds and precipitation have been dealt with.

1) You are perhaps familiar with the term 'under the weather'.

i) Write the meaning of this term.

ii) Find out its origin.

2) How does weather differ from climate?

3) i) Name your favourite season.

ii) List four aspects of this season.

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iii) Write two lines of a poem or a song pertaining to this season.

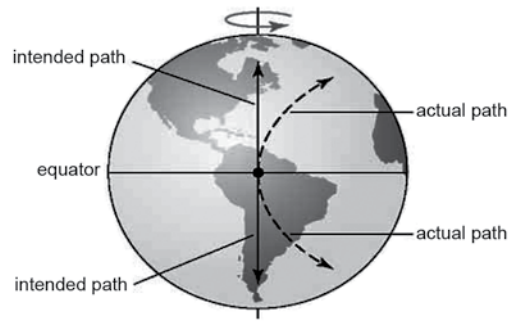
4) Temperature Data:

-15° C 68° F 32° F 78° F 45° C 95° F -5° C 28° F

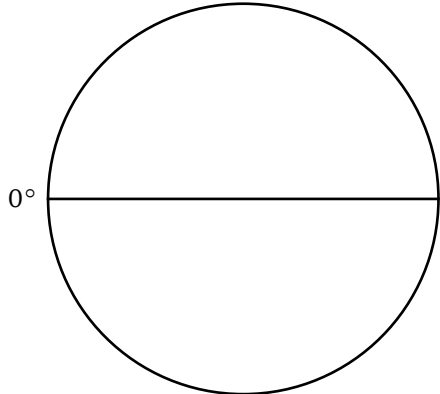
Arrange the temperature data along the line drawn below :

Coldest _____ Warmest

5) The figure (www.nc-climate.ncsu.edu) below shows the Coriolis Effect.



Show the direction of planetary winds in the diagram given below.



6) Tick the correct answer in each of the questions below:

- i) The subtropical high pressure belts are also known as
A. doldrums B. horse latitudes C. roaring forties
- ii) The instrument that measures wind speed is the
A. anemometer B. wind vane C. hygrometer
- iii) Land breeze is an example of
A. offshore wind B. onshore wind C. seasonal wind
- iv) An example of a warm local wind in the Alps is
A. bora B. foehn C. harmattan
- v) Small but intense low pressure systems of the West Pacific and the China Sea are known as
A. tsunamis B. tornadoes C. typhoons

7) i) Look up the definitions of the following and write them in the space provided:

Isotherms
Isobars
Isohyets
Isonephhs
Isohels

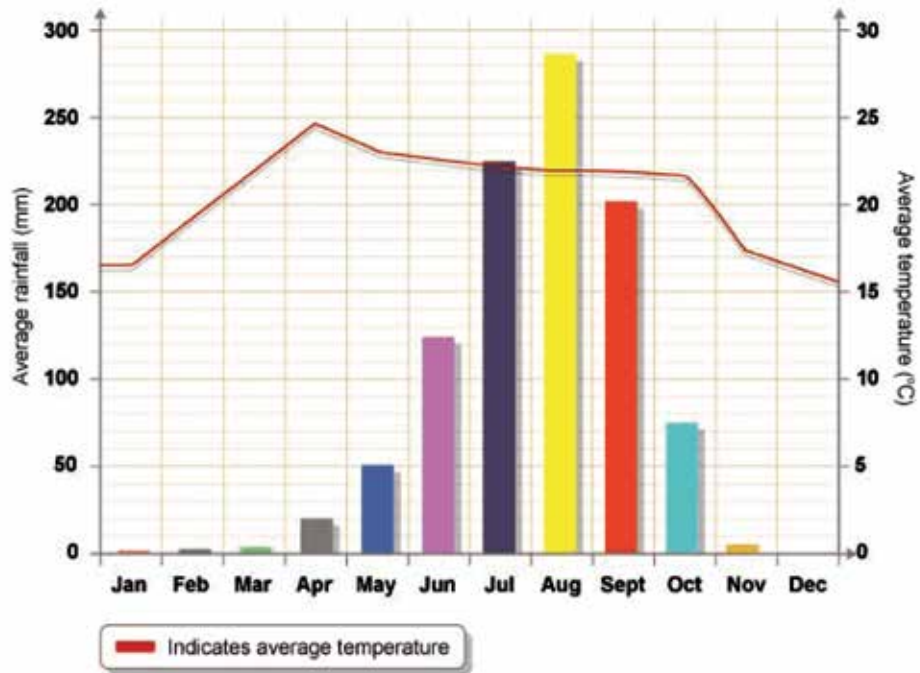
- ii) Encircle the elements of weather and climate in each of your answers above.

8) On the map of India given below



- i) label and colour in dark blue the first state to receive the monsoons.
- ii) label and colour in pink the states that experience tropical cyclones.
- iii) label and colour in yellow two states affected by western disturbances.

9) Study the rainfall temperature graph (bbc.co.uk) carefully and provide answers to the following:



i) Highest temperature:

ii) Lowest temperature:

iii) Month recording highest temperature:

iv) Month recording lowest temperature:

v) Annual range of temperature:

vi) Month recording highest rainfall:

vii) Month recording lowest rainfall:

viii) Name a station in India that would have a similar pattern of annual temperature and rainfall:

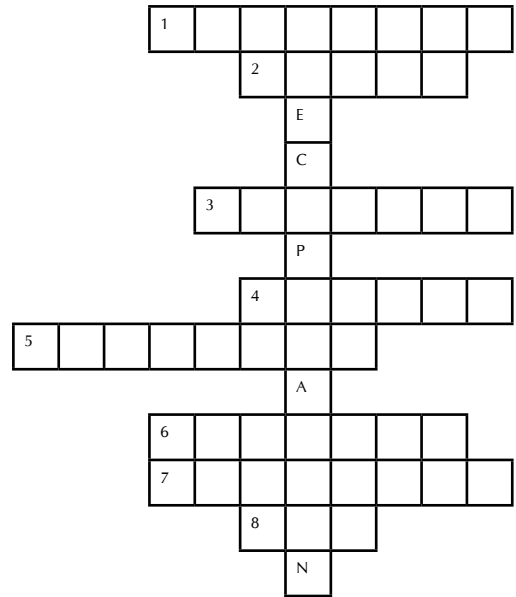
- 10) Collect weather maps (India) from the newspaper/internet for a week in September. Paste the maps on the blank space provided. Write a short note (3 to 5 sentences) on the retreat of monsoons from your observation of these maps.



11) i) Complete the crossword below with the help of the clues given:

Across:

1. The temperature at which air becomes saturated
2. The boundary between two air masses
3. Small drops of rain
4. White feathery clouds
5. The amount of water vapour present in the air
6. A local wind in the Mediterranean region
7. The height above mean sea level
8. A form of condensation



ii) Define the word that is formed vertically (down) on completion of the puzzle.

12) i) Compile a weather record of your hometown under the following heads for a week.

Day	Maximum Temperature	Minimum Temperature	Humidity	Rainfall

ii) Mention the changes you observe in the following:

• average temperature
• rainfall
• humidity

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