



SOCIAL SCIENCE

Class 7th

Chapter 2: Understanding the Weather



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Questions and activities

Que 1. Match the instrument with the weather element it measures.

Instrument used	Element of the Weather
(1)Hygrometer	(a)Precipitation
(2)Anemometer	(b)Atmospheric pressure
(3)Barometer	(c)Wind direction and speed
(4)Thermometer	(d)Humidity
(5)Rain gauge	(e)Temperature

Ans:

Instrument used	Element of the Weather
(1)Hygrometer	(d)Humidity
(2)Anemometer	(c)Wind direction and speed
(3)Barometer	(b)Atmospheric pressure
(4)Thermometer	(e)Temperature
(5)Rain gauge	(a)Precipitation

Que 2. Jyotsna is deciding what clothes to pack for her school trip to Mumbai in June. She looks at the weather forecast, which predicts 29°C and 84% humidity. What would be your advice to her?

Ans: Mumbai in June is hot and very humid, and it's also the beginning of the rainy season. She should:

1. Wear lightweight, loose cotton clothes (they absorb sweat and keep the body cool)
2. Avoid tight or synthetic clothes (they trap heat and feel uncomfortable)
3. Carry an umbrella or raincoat (monsoon showers are common)
4. Use comfortable, waterproof footwear
5. Keep a water bottle to stay hydrated

Que 3. Imagine that a small group of students is setting up a rain gauge.

Here are some options for the site.

1. The school vegetable garden.
2. The terrace of the school building.
3. Open ground with elevated platform.
4. Compound wall of school.
5. Verandah of the school laboratory.

Discuss in your group and finalise the site. Write down the reasons for your decision.

Ans: We discussed in the group and finalised the site: Open ground with elevated platform

Reasons:

1. Rain falls directly into the gauge.
2. No trees or buildings block the rain.
3. Gives accurate rainfall measurement.
4. Easy to observe and use.

Other places are not suitable because walls, roofs, or plants can affect the rainfall reading.

Que 4. Below is a chart taken from IMD, Jammu and Kashmir. Looking at the data available, write a short script to report the weather conditions in different parts of Jammu and Kashmir on the date shown. (Hint: Cover the temperature range, maximum and minimum temperatures, humidity, precipitation, etc.)

DAILY WEATHER PARAMETERS
Jammu & Kashmir (EVENING)
DATE: 01-02-2024

Station	max temperature of date			min temperature of date			from 0830 to 1730 hrs (mm/cm)		24 hrs R/F ending 0830 of date (mm/cm)		relative humidity	
	ACT (°C)	NOR (°C)	DEP (°C)	ACT (°C)	NOR (°C)	DEP (°C)	R/F (mm)	S/N (cm)	R/F	S/N	0830 (%)	1730 (%)
	SRINAGAR	6.5	8.9	-2.4	0.2	-0.7	0.9	TR	0.0	13.4	2.4	89
QAZIGUND	3.2	8.5	-5.3	-0.4	-2.1	1.7	11.8	10.0	36.2	22.0	97	90
PAHALGAM	1.1	5.6	-4.5	-4.1	-6.1	2.0	6.0	8.0	19.4	23.0	96	96
KUPWARA	5.1	8.5	-3.4	-0.7	-2.3	1.6	0.5	0.0	21.9	10.0	97	94
KUKERNAG	2.6	6.6	-4.0	-1.4	-2.4	1.0	12.0	8.0	35.2	30.0	96	97
GULMARG	-2.6	1.4	-4.0	-7.6	-7.6	0.0	8.2	6.35	35.2	35.0	76	100
MUZAFARABAD	8.5	-	-	5.6	-	-	-	-	25.8	-	93	-

Note: ACT means actual; NOR means normal; DEP is departure from normal; R/F is rainfall; S/N is snowfall; TR means trace amount.

Ans:

1. On 1st February 2024, the weather in Jammu and Kashmir was very cold.
2. Srinagar recorded a maximum temperature of 6.5°C and minimum temperature of 0.2°C.
3. Gulmarg was the coldest place with a minimum temperature of -7.6°C.
4. Rainfall and snowfall occurred in many areas like Qazigund, Pahalgam, and Gulmarg.
5. Qazigund received heavy rainfall and snowfall during the day.
6. Humidity was high in all stations, showing moist and cloudy weather conditions.
7. Overall, the weather in Jammu and Kashmir was cold, wet, and cloudy with rain and snowfall in many places.