

Science

Grade 8

Weather and climate

Tell the difference between daily weather and long-term climate.



I can explain the difference between weather and climate and read weather data.

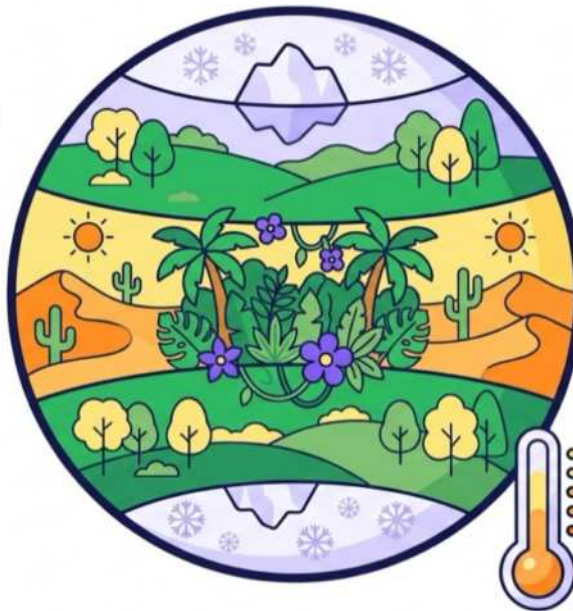


1



Sort it

Write each word in the right box.



It is raining today.

Deserts are dry all year.

Tomorrow will be windy.

The Arctic has long, cold winters.

This morning was foggy.

Summers here are usually warm.

Weather

Climate

2

**Match up**

Draw a line to match each pair.

☐

Thermometer

☐

Barometer

☐

Anemometer

☐

Rain gauge



● A. wind speed

● B. temperature

● C. rainfall

● D. air pressure

3

**Pick the answer**

Circle the right answer.

1. Which instrument measures air pressure?

A barometer

B thermometer

C rain gauge

2. Climate is the average weather over about...

A 30 days

B 30 years

C 3 years

4

**True or false**

Circle true or false.

1. Weather can change from hour to hour.

True

False

2. Climate describes weather patterns over a long time.

True

False

3. Air pressure is measured in degrees Celsius.

True

False

4. Places near the equator are usually warmer than places near the poles.

True

False

5. Clouds form when warm, moist air rises and cools.

True

False

6. Nights in a desert are always hot.

True

False

5

**Temperature range**

Range = maximum – minimum. Fill in the last column.

Day	Max (°C)	Min (°C)	Range (°C)
Monday	18	9	
Tuesday	22	11	
Wednesday	15	7	
Thursday	12	-2	

6

**Weather words**

Use the word bank to complete each sentence.

WORD BANK

humidity

precipitation

front

altitude

equator

- The amount of water vapour in the air is called _____.
- Rain, snow and hail are all forms of _____.
- The boundary between a warm and a cold air mass is a _____.
- It is usually colder at high _____, for example on a mountain top.
- The Sun's rays hit the ground most directly near the _____.

7

**Weather problems**

Circle the right answer.

- The temperatures over 7 days were 12, 14, 13, 15, 16, 11 and 17 °C. What is the mean?

A 13 °C

B 14 °C

C 15 °C

- Why do coastal areas often have milder winters than inland areas?

A the sea stores heat and releases it slowly

B there are more mountains there

C the Moon is closer there

3. What mainly causes wind?

A the Moon's gravity

B trees moving

C differences in air pressure

8 How rain forms

Number the boxes to put them in the right order.

- ☐ Water droplets join together and grow heavier.
- ☐ The Sun heats the ground and water evaporates.
- ☐ The drops fall as rain.
- ☐ Warm, moist air rises and cools.
- ☐ Water vapour condenses into tiny droplets and forms clouds.

9 Think and write

Describe the climate where you live. How is it different from today's weather?

How did it go?



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Answer key

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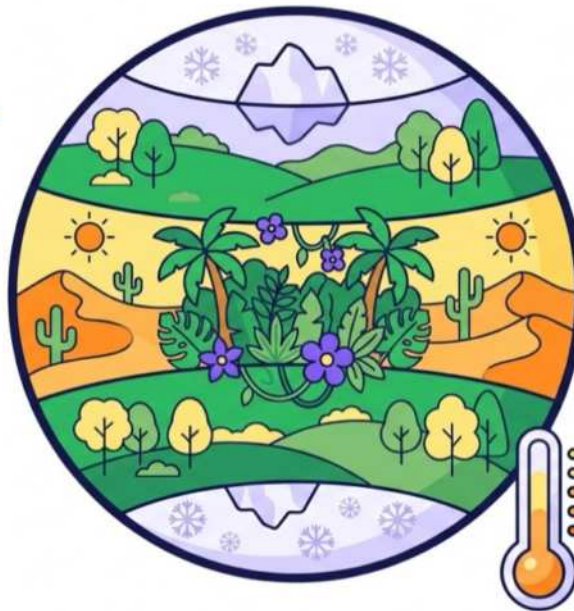


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Climate

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cold winters., Summers here are usually warm.

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**Match up**

Draw a line to match each pair.

B Thermometer •

D Barometer •

A Anemometer •

C Rain gauge •

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