Weather and Seasons Essentials

Science · Answer Key · 8 Questions

1. Which layer of the atmosphere is where almost all weather phenomena, such as rain, clouds, and storms, occur?

A) Mesosphere
B) Stratosphere
C) Troposphere
D) Thermosphere

2. What is the primary cause of the change in seasons on Earth?

A) The distance between Earth and the Sun
B) The tilt of Earth's axis as it orbits the Sun
C) The rotation of Earth on its own axis
D) Variations in solar activity

3. On the spring and autumn equinoxes, which of the following is true regarding daylight?

A) The North Pole has 24 hours of daylight
B) The South Pole has 24 hours of darkness
C) Day and night are approximately equal in length everywhere on Earth
D) The Sun is directly over the Tropic of Capricorn

4. What instrument is used by meteorologists to measure atmospheric pressure?

A) Anemometer
B) Hygrometer
C) Barometer
D) Thermometer

5. Which type of cloud is typically thin, wispy, and found at very high altitudes, often composed of ice crystals?

A) Cumulus
B) Cirrus
C) Stratus
D) Nimbus

6. What term describes the boundary where two air masses of different temperatures and moisture levels meet?

A) Front
B) Isotherm
C) Jet stream
D) Pressure cell

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7. During which season in the Southern Hemisphere does the Earth's South Pole lean most directly toward the Sun?

A) Autumn
B) Winter
C) Spring
D) Summer

8. What is the main component of Earth's atmosphere by percentage of volume?

A) Oxygen
B) Argon
C) Nitrogen
D) Carbon dioxide

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