

## Patterns in Weather

### Note-taking Guide - Answer Key

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*summer, droughts, towards, precipitation, spring, meteorologists, tilted, weather, space, northern, fall, patterns, angles, away, satellite maps, charts, winter*

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Our planet never stands upright—it is always tilted, or leaning on one side, as it revolves around the Sun.

This makes the Sun's rays strike different parts of Earth at different angles.

The part that leans towards the Sun during revolution experiences summer. The part that leans away from the Sun goes in for the winter chills.

When the Earth is in this position in its orbit, both the halves are neither tilted toward nor away from the Sun. The northern half experiences fall while the southern half experiences spring.

In this position, the northern half is tilted away from the Sun and experiences winter. The southern half is tilted toward the Sun and experience summer.

And the patterns in weather continue year after year!

Meteorologists are scientists who study weather patterns and predict the weather. They use satellite maps to help them predict the weather.

A satellite map is a picture of Earth taken from space. The map can show if there are clouds in the sky that can cause precipitation.

These maps give them other important information. They allow meteorologists to predict severe weather conditions, such as storms, floods, and droughts.

Meteorologists also use charts and tables to find weather patterns and make weather predictions.