

Name \_\_\_\_\_

## How Temperatures Change Through the Layers of the Atmosphere

### Open-Ended Response Answer Key

1. Because changes in temperature affect how air moves, which helps create weather. Planes also need to know about temperature for safe flying.
2. It would pass through the troposphere and stratosphere. It would get colder in the troposphere, warmer in the stratosphere, and much colder again in the mesosphere if it went that high.
3. It depends on how much energy from the sun is absorbed and how thick the air is in each layer.
4. It helps them prepare for different conditions like temperature, air pressure, and radiation.

