



Atmospheric Adventures Content Standards

Grade Two

Earth and Space Sciences

Earth Systems

4. Observe and describe that some weather changes occur throughout the day and some changes occur in a repeating seasonal pattern.
5. Describe weather by measurable quantities such as temperature and precipitation.

Scientific Inquiry

Doing Scientific Inquiry

1. Ask "how can I/we" questions.
2. Ask "how do you know" questions (not "why" questions) in appropriate situations and attempt to give reasonable answers when others ask questions.
3. Explore and pursue student-generated "how" questions.
5. Use evidence to develop explanations of scientific investigations. (What do you think? How do you know?)

Grade Four

Earth and Space Sciences

Earth Systems

1. Explain that air surrounds us, takes up space, moves around us as wind, and may be measured using barometric pressure.
2. Identify how water exists in the air in different forms (e.g., in clouds, fog, rain, snow, and hail.)
3. Investigate how water changes from one state to another (e.g., freezing, melting, condensation, and evaporation.)
4. Describe weather by measurable quantities such as temperature, wind direction, wind speed, precipitation, and barometric pressure.
5. Record local weather information on a calendar or map and describe changes over a period of time (e.g., barometric pressure, temperature, precipitation symbols, and cloud conditions.)
6. Trace how weather patterns generally move from west to east in the United States.
7. Describe the weather, which accompanies cumulus, cumulonimbus, cirrus, and stratus clouds.

Grade Ten

Earth and Space Sciences

Earth Systems

2. Explain climate and weather patterns associated with certain geographic locations and features (e.g., tornado alley, tropical hurricanes, and lake effect snow.)