

Appendix 1: Implementing Teaching Standards

Overall Standard 5.E.1: Understand weather patterns and phenomena, making connections to the weather in a particular place and time

5.E.1.1 *Compare daily and seasonal changes in weather conditions (including wind speed and direction, precipitation, and temperature) and patterns.*

Students will collect, record, graph and analyze local weather data.

5.E.1.2 *Predict upcoming weather events from weather data collected through observation and measurements.*

Students will use weather maps and atmospheric weather data to make predictions about weather events.

5.E.1.3 *Explain how global patterns such as the jet stream and water currents influence local weather in measurable terms such as temperature, wind direction and speed, and precipitation.*

Students will analyze national weather maps to describe how weather will change locally.

Next Generation Science Standards

MS-ESS2-5 *Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions*

MS-ESS2-6 *Develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates.*

Students will use weather maps and atmospheric weather data to make predictions about weather events.

Common Core: Mathematics

5.OA.3 *Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane.*

Students will graph collected weather data.