**Weather Unit**

The Big Idea: I will learn about the weather and learn how to measure temperature, wind speed and direction, amount of precipitation and cloud cover. I will learn about how air moves and how weather affects humans.

**I can** predict within a given indoor or outdoor environment where one is likely to find the warmest and coolest temperatures.

**I can** describe patterns of air movement, in indoor and outdoor environments, that result when one area is warm and another is cool.

**I can** describe and demonstrate methods for measuring wind speed and for finding wind direction.

**I can** describe evidence that air contains moisture and that dew and other forms of precipitation come from moisture in the air.

**I can** describe and measure different forms of precipitation, in particular, rain, hail, sleet, and snow.

**I can** measure at least four kinds of weather phenomena and record the weather over a period of time.

**I can** identify some common types of clouds and relate them to weather patterns.

**I can** describe the effects of the sun’s energy on daily and seasonal changes in temperature.

**I can** recognize that weather systems are generated because different surfaces on the face of the Earth retain and release heat at different times.

**I understand** that climate refers to long term weather trends in a particular region and that climate varies throughout the world.

**I can** recognize that human actions can affect climate, and identify human actions that have been linked to the greenhouse effect.

**I can** appreciate how it is important to be able to forecast weather and to have suitable clothing or shelter to endure various types of weather.

**I can** test fabrics and clothing designs to choose those that most effectively meet the challenges of particular weather conditions.