**Weather Prediction**

7.E.1.4 Predict weather conditions and patterns based on information obtained from:

* Weather data collected from direct observations and measurement (wind speed and direction, air temperature, humidity and air pressure)
* Weather maps, satellites and radar
* Cloud shapes and types and associated elevation

**Essential Questions:**

* How can you predict the weather?
* What are the challenges and limitations in predicting the weather?

**Vocabulary:**

**Pressure gradient**- the rate of decrease in barometric pressure in a given region at a particular time

**Wind vane**- a device that measure wind direction

**Psychrometer**- an instrument used to measure humidity

**Radar (Doppler)**- a radar tracking system using the Doppler effect to determine the location and velocity of a storm, clouds, precipitation

**Barometer**- an instrument measuring atmospheric pressure

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