



Sumter County Intermediate School



“Motivated, Visionary, Problem-Solvers”

Fourth Grade Science Expectations - 1st Nine Weeks 2023-2024

Weather Instruments, Weather Maps, with Forecasting the Weather

Unit 1

S4E3. Students will differentiate between the states of water and how they relate to the water cycle and weather.

- a. Demonstrate how water changes states from solid (ice) to liquid (water) to gas (water vapor/steam) and changes from gas to liquid to solid.
- b. Identify the temperatures at which water becomes a solid and at which water becomes a gas.
- c. Investigate how clouds are formed.
- d. Explain the water cycle (evaporation, condensation, and precipitation).
- e. Investigate different forms of precipitation and sky conditions. (rain, snow, sleet, hail, clouds, and fog).

S4E4. Students will analyze weather charts/maps and collect weather data to predict weather events and infer patterns and seasonal changes.

- a. Identify weather instruments and explain how each is used in gathering weather data and making forecasts (thermometer, rain gauge, barometer, wind vane, anemometer).
- b. Using weather maps to identify the fronts, temperature, and precipitation and use the information to interpret the weather conditions.
- c. Use observations and records of weather conditions to predict weather patterns throughout the year.
- d. Differentiate between weather and climate.