



Weather: Teacher Tips & Helpful Hints

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

5.P.2 Understand the interactions of matter and energy and the changes that occur.

- The Student Activity Pack is broken up into three different activities:
 - **Activity 1: Weather Log** (5.E.1.1)
 - **Activity 2: Weather Predictor** (5.E.1.2)
 - **Activity 3: Weather Tanks** (5.P.2.1)

Activity 1: Weather Log

- The weather log is located on the back of the Student Activity Guide
- Fill out the first day together.
- It is ok if students do not find both Fahrenheit and Celsius. They do want to stay consistent throughout their log.
- For current conditions and precipitation, students should look outside and record what they observe.

Activity 2: Weather Predictor

- Assist students through **Parts 1, 2, and 3** to ensure their understanding of how to use the Weather Predictor Wheel.
- In **Part 4**, the challenge ‘It will get snowy this afternoon.’ should have the students choosing the season to be winter with a rain forecast.
- In **Part 5**, students need to gather weather data **before 9 am** to create an afternoon prediction. You may collect this data to share with students.
- There is a *Weather Predictor: Student Activity Sheet* available.

Activity 3: Weather Tanks

- Students will need water, a pinch of dirt, and salt.
- Students will make ice using small plastic cups.
- Sunny weather is necessary for this activity.
- There is a *Weather Tanks: Student Activity Sheet* available.

N.C.S.S Clarifying Objectives

- 5.E.1.1 Compare daily and seasonal changes in weather conditions (including wind speed and direction, precipitation, and temperature) and patterns.
- 5.E.1.2 Predict upcoming weather events from weather data collected through observation and measurements.
- 5.P.2.1 Explain how the sun’s energy impacts the processes of the water cycle (including, evaporation, transpiration, condensation, precipitation, and runoff).