



# Weather: Teacher Tips & Helpful Hints

**N.C.S.S:** ESS.5.1 Understand how Earth systems (hydrosphere and atmosphere) impact patterns of weather and climate.

- The Student Activity Pack is broken up into three different activities:
  - **Activity 1: Weather Log** (ESS.5.1.1)
  - **Activity 2: Weather Predictor** (ESS.5.1.2)
  - **Activity 3: Weather Tanks** (ESS.5.1.4)

## 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

- ESS.5.1.1 Analyze and interpret data to compare daily and seasonal changes in weather conditions (including wind speed and direction, precipitation, and temperature) and patterns.
- ESS.5.1.2 Analyze and interpret weather data to explain current and upcoming weather conditions (including severe weather such as hurricanes and tornadoes) in a given location.
- ESS.5.1.4 Use models to explain how the sun’s energy drives the processes of the water cycle (including evaporation, transpiration, condensation, precipitation).