

*Weather* Storyline  
STC 1st Grade

**Unifying Concepts:**

- ✓ Systems, order and organization
- ✓ Evidence, models and explanations
- ✓ Change, constancy and measurement
- Evolution and equilibrium
- Form and function

**Big Idea:**

Weather can be described by measurable quantities such as temperature, wind direction and speed and precipitation. Weather changes from day to day and over the seasons.

**Sub Concept I:** Features of weather include cloud cover, precipitation, wind and temperature, and these features can be observed and measured.

**Sub Concept II:** Weather affects the decisions people make about the clothing they will wear and about their outside activities.

**Sub Concept III:** Weather changes from day to day and from week to week

**Sub Concept IV:** Meteorologists are scientists who study, observe and record information about the weather and use that information to make predictions.

**Description of Assessment:** End-of-unit assessment, writing prompts; notebooks, review of student work

**Science Process Skills:** Observing, Questioning, Comparing, Communicating, Predicting, and Organizing

**National Science Standards:** K-4 Physical Science (Properties of Objects and Materials) Earth Science (Objects in the Sky, Changes in the Earth and Sky) Science as Inquiry (Abilities and Understandings about Inquiry)

**Rhode Island Science Standards:** The Earth, The Universe, Processes That Shape the Earth, Energy Transformations

# Weather Lessons

**Lesson 1**  
Sharing What We Know About Weather  
Observing and describing weather, and deciding what to wear to school today

**Lesson 2**  
Observing the Weather  
Recording data about observable weather features

**Lesson 3**  
Recording the Weather  
Recording data about cloud cover and precipitation on a calendar

**Lesson 4**  
Estimating Wind Speed  
Applying a wind scale to record the speed of the wind

**Lesson 5**  
Reading a Thermometer  
Using thermometers to record hotter or colder temperatures

**Lesson 6**  
Making a Model Thermometer  
Reading temperatures and relating them to appropriate activities and clothing

**Lesson 7**  
Comparing Inside and Outside Temperatures  
Compiling inside and outside temperatures on a graph

**Lesson 8**  
Measuring Water Temperature  
Measuring temperatures of hot and cold water

**Lesson 9**  
Experimenting with Color and Temperature  
Recording temperatures shown on thermometers placed in black and white coverings

**Lesson 10**  
Making a Rain Gauge  
Measuring and recording the amount of rainfall in rain gauges

**Lesson 11**  
Exploring Puddles  
Observing the process of evaporation

**Lesson 12**  
Testing Rainy Day Fabrics  
Conducting experiments with fabrics and water

**Lesson 13**  
Observing Clouds  
Observing and discussing

**Lesson 14**  
Classifying Clouds  
Creating classification schemes for sorting clouds

**Lesson 15**  
Comparing Forecasts to Today's Weather  
Discussing forecasts as predictions based on observed data

**Lesson 16**  
Summarizing Our Weather Observations  
Summarizing weather over a long period of time

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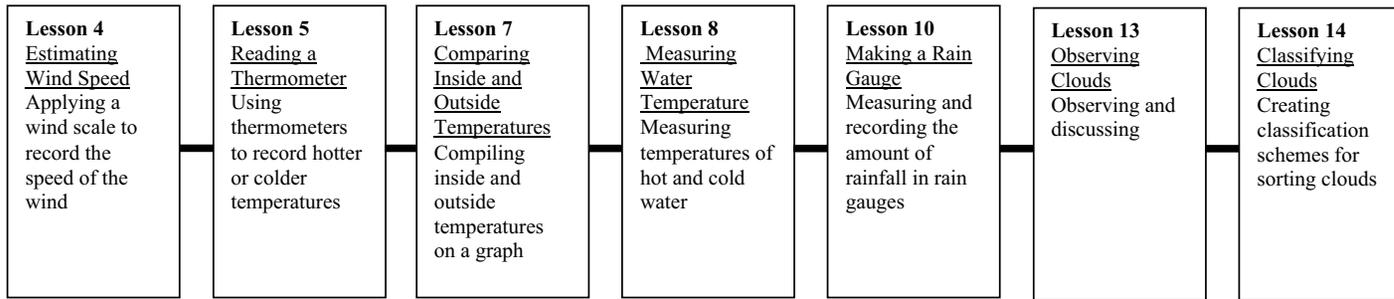
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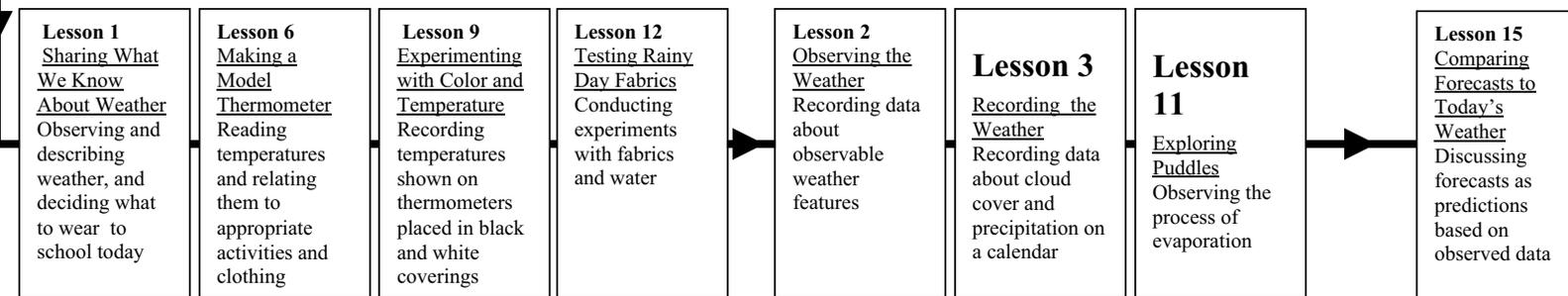
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