



Lesson Title: Be A Weather Watcher	Grade Level: 1st
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Essential Question:
 How can I investigate and create instruments to measure weather?
 How can I identify types of precipitation?
 How can I organize and represent weather data?
 How can I use what I have learned to create a production about the weather?

Standards:
Science Standards:
S1E1. Obtain, evaluate, and communicate weather data to identify weather patterns.
 a. Represent data in tables and/or graphs to identify and describe different types of weather and the characteristics of each type.
 b. Ask questions to identify forms of precipitation such as rain, snow, sleet, and hailstones as either solid (ice) or liquid (water).
 c. Plan and carry out investigations on current weather conditions by observing, measuring with simple weather instruments (thermometer, wind vane, rain gauge), and recording weather data (temperature, precipitation, sky conditions, and weather events) in a periodic journal, on a calendar, and graphically.

Math Standards:
MGSE1.MD.4 Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.
MGSE1.NBT.1
 Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.
MGSE1.MD.2
 Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same size length units that span it with no gaps or overlaps (iteration).

Other Content Standards:

Technology Integration:

- ❖ Weather Prezi
- ❖ Weather/Season Songs
- ❖ BrainPop Jr. Videos
- ❖ Weather Report Videos

Career Connection:

- ❖ Molly McCollum from CBS46 visited our school on 11/12/19. She had a presentation about her career. The presentation took the children through a day in the life of a meteorologist and talked about how she uses different weather tools to do her job. After seeing a prerecorded weather report by Ms. McCollom, student volunteers were able to do mini-weather reports with her.
- ❖ Career Kids: Meteorologist Video - <https://www.youtube.com/watch?v=KRrPqrOi9WY>
- ❖ Kid Meteorologist Video - <https://gpb.pbslearningmedia.org/resource/ess05.sci.ess.watcyc.kidmeteor/kid-meteorologist/#.WVJgX4jys2w>

<ul style="list-style-type: none"> ❖ Researching Weather Instruments ❖ Recording Weather Reports in Class on iPad 	<ul style="list-style-type: none"> ❖ Sesame Street Weather - https://www.youtube.com/watch?v=tmO9cjsj1zc ❖ Becoming a Meteorologist - http://www.weatherwizkids.com/career-becoming-meteorologist.htm
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<p><u>Engineering Challenge:</u></p> <ul style="list-style-type: none"> ❖ Design & Create a Rain Gauge ❖ Design & Create a Windsock ❖ Design & Create a Model of a Thermometer ❖ Write & Record a Weather Presentation Using the Created Tools 	<p><u>Materials:</u></p> <p>Rain Gauge: <u>Big Rain Coming</u> by Katrina Germein, plastic bottles, measuring tools, permanent markers, scissors, cardboard, hole punch, tape</p> <p>Windsock: <u>Feel the Wind</u> by Arthur Dorros, wooden sticks, dowels, scrap fabric, cotton, nylon, polyester, string, yarn, tape, tissue paper, poster board, hole punch</p> <p>Thermometer: <u>One Hot Summer Day</u> by Nina Crews, tape, straws, pencils, hundred chart, construction paper, unifix cubes, paper clips</p> <p>Presentation: rain gauges, thermometers, windsocks, iPads, large green cloth or paper (for green screens)</p>
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Lesson Procedures:

Since October, students have been recording weather data in their STEM journals in a chart.

Days 1 & 2: Weather overview - Prezi, songs, Brain Pop Jr, STEM Journal responses about seasons

Day 3: Ms. McCollum from CBS46 Meteorologist career presentation

Day 4: Design & Create Rain Gauge Challenge

Day 5: Design & Create Windsock Challenge

Day 6: Design & Create a Model Thermometer Challenge

Day 7: Review of Weather Reports

Day 8: Practice Recording with iPads

Days 9 & 10: Write & record a weather report using the tools you made.