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| 􀀉􀀋􀀎􀀌􀀎􀀍􀀐**I’m a Meteorologist!** **C:\Users\sse11532\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\USN4D55T\MC900363218[1].wmf** |
| **Background Information**  |
| You have been learning all about different types of weather. You know how to record data, use weather tools, and can journal about how weather events change during each season. Today you will be given a design challenge where you will have to use all of your weather knowledge.  |
| **Design Challenge** |
| The Weather Channel is looking for new talent! They are looking for a new Meteorologist who is able to explain about how weather changes during the seasons, can understand weather data, and can observe weather with weather instruments. They need you to create a weather video that shows how you can describe the weather. In your video you will need to show weather data, use and create your own weather rain gauge or wind vane, and will have to explain what season we are in and why.  |
| **Criteria** |
| Your weather instrument must * be either a wind vane or rain gauge (the rain gauge must include a unit of measurement)
* it must work and you must be able to use it accurately

Your video must* include weather data
* An explanation of what season it is
* Show you using your weather instrument
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| **Materials/Tools:** |
| * paper
* dowel rods
* 2-Liter bottles
* Milk jugs
* Plastic bottles
* Scissors
* markers
 | * Tape (masking or duct)
* Writing tools for data collection
* Weather recording sheet
* Units for measurement (Unifix cubes, etc.)
* Ice cream container
* straws
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| **Standards** |
| **Science**S1E1. Students will observe, measure, and communicate weather data to see patterns in weather and climate.* b. Investigate weather 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 or on a calendar seasonally.
* c. Correlate weather data (temperature, precipitation, sky conditions, and weather events) to seasonal changes.

**Math**MCC1.MD.2: Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object 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.  |
| **Assessments/Rubrics** |
| * Student Journals
* Student Checklist
* Teacher Observation
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Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 I am a Meterologist STEM Challenge

**STEM Challenge:**

The Weather Channel is looking for new talent! They are looking for a new Meteorologist who is able to explain about how weather changes during the seasons, can understand weather data, and can observe weather with weather instruments. They need you to create a weather video that shows how you can describe the weather. In your video you will need to show weather data, use and create your own weather rain gauge or wind vane, and will have to explain what season we are in and why.

**Criteria/Constraints:**

Your weather instrument must be either a wind vane or rain gauge (the rain gauge must include a unit of measurement) and it must work and you must be able to use it accurately

Your video must include weather data, an explanation of what season it is and show you using your weather instrument

**Materials:**

Paper, dowel rods, 2-Liter bottles, Milk jugs, Plastic bottles

Scissors, markers, Tape (masking or duct)

Writing tools for data collection, Weather recording sheet

Units for measurement (Unifix cubes, etc.)

Ice cream container, straws

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