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| **Stage 1 Desired Results** | | |
| ESTABLISHED GOALS - #1  **3-ESS2-1. Use graphs and tables of local weather data to describe and predict typical weather during a particular season in an area.** [Clarification Statement: Examples of data could include average temperature, precipitation, wind direction and wind speed.] [Assessment Boundary: Graphical displays are limited to pictographs and bar graphs. Assessment does not include climate change.]  **3-ESS2-2. Obtain and summarize information about the climate of different regions of the world to illustrate that typical weather conditions over a year vary by region.**  **3-ESS3-1. Evaluate the merit of a design solution that reduces the impacts of a weather-related hazard.\*** [Clarification Statement: Examples of design solutions to a weather-related hazard could include a barrier to prevent flooding, a wind-resistant roof, and a lightning rod.] | ***Transfer*** | |
| *Students will be able to independently use their learning to* | |
| ***Meaning*** | |
| UNDERSTANDINGS  *Students will understand that…*   1. Weather patterns change the season 2. Weather is related to Earth’s orbit around the sun and location on the Earth 3. Different regions have different climates 4. Climate is weather over time 5. How weather causes disasters and how we protect ourselves 6. Meteorologists use instruments to keep data about weather/predict 7. How the weather cycle impacts weather | ESSENTIAL QUESTIONS  *Students will keep considering…*  Where does weather come from?  How is weather data used to predict changes in seasons?  Why do different regions in the world have different weather?  What solutions have humans designed to reduce the impact of weather related hazards. |
| ***Acquisition*** | |
| KNOWLEDGE  *Students will know…*  Vocabulary: temperature, precipitation, climate, region  That weather impacts our daily life  Where the equator is and how much climate changes based on location | Science Practice |

**Table 3: *Stage Two***

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| **Stage 2 – Evidence** | | |
| **Coding** | **Evaluative Criteria** | **Assessment Evidence** |
|  |  | PERFORMANCE TASK(S):  Graph daily weather and look for patterns  Interpret the graph  Draw, label and understand the water cycle  Research natural disasters |
|  |  | Suggested Resources: |