**Weather Station 1: Brain-pop Weather**

**If brain pop is not already open…**

* **Visit LvmsScience.weebly.com**
* **Go to the bottom and click weather.**
* **At the weather page, under stations click “Weather Brain pop”**
* **Create a Tree map based on the video. Your main element (at the top) should be weather.**
* **Each level below it should be the vocabulary words from the video, and below that a description of each of the words (temperature, humidity, air pressure, climate)**
* **You can pause the video and rewind as you please.**

**Weather Station 2: High and Low Pressure**

* **Visit LvmsScience.weebly.com**
* **Go to the bottom and click weather.**
* **At the weather page, under stations click “High and low pressure”**
* **Read the articles.**
* **Create a double bubble map comparing and contrasting high and low pressure.**
* **Include 3 facts on each side that make that pressure type unique, and 2 things in the middle that they have in common.**

**Weather Station 3: Types of Fronts**

* **Visit LvmsScience.weebly.com**
* **Go to the bottom and click weather.**
* **At the weather page, under stations click “Types of Fronts”**
* **Read about each of the four fronts.**
* **For each front, make a circle map that includes 5 details about that front.**
* **You should have a total of 4 circle maps when done.**
* **(If you don’t know what circle map looks like, look at our thinking maps on the wall)**

**Weather Station 4: Wild and Wooly Weather**

* **Visit LvmsScience.weebly.com**
* **Go to the bottom and click weather.**
* **At the weather page, under stations click “Wild and Wooly Weather”**
* **Read the article.**
* **List 10 interesting Facts you learned from the reading! You need *at least* one from each section.**

**Weather Station 5: Air Masses**

* **Visit LvmsScience.weebly.com**
* **Go to the bottom and click weather.**
* **At the weather page, under stations click “Air masses”**
* **Read the article.**
* **ANSWER ONLY #1!!**
* **Complete the chart for all four types of air masses (you are doing 4 separate maps for continental, maritime, tropical and polar)**

**Weather Station 6: Ocean Currents**

* **Visit LvmsScience.weebly.com**
* **Go to the bottom and click weather.**
* **At the weather page, under stations click “Ocean Currents”**
* **Read the article.**
* **Answer #1-3. Copy the picture on #1 with your answer.**

**Weather Station 7: Monsoons**

* **Visit LvmsScience.weebly.com**
* **Go to the bottom and click weather.**
* **At the weather page, under stations click “Monsoons”**
* **Read the article.**
* **Copy the picture for sea and land breeze; write a sentence describing each one.**
* **Answer # 1-2.**

**Weather Station 8: Memory Match Game**

* **We all know how to play memory, right?**
* **Lay out all the cards face down, in a reasonable pattern.**
* **With a partner, take turns flipping them over and matching the words with their definition.**
* **Create a chart and write the words you get correct down, and the words your partner gets correct down. Example below. (ALL WORDS NEED TO BE WRITTEN)**
* **When you finish, put the cards back in the bag.**

|  |  |
| --- | --- |
| **James** | **Julio** |
| **El Niño**  **Cold front**  **Etc.** | **Stationary front**  **Hurricane**  **Etc.** |

**Weather Station 9: Blizzard**

* **Visit LvmsScience.weebly.com**
* **Go to the bottom and click weather.**
* **At the weather page, under stations click “Blizzards”**
* **Watch the video**
* **Answer the question presented in the video.**
* **Answer this: How do blizzards form?**

**Weather Station 10: Hurricanes**

* **Visit LvmsScience.weebly.com**
* **Go to the bottom and click weather.**
* **At the weather page, under stations click “Hurricanes”**
* **Watch the video**
* **Answer this question:**
* **Hurricanes lose strength as they progress over land. Why do you think this happens?**

**Weather Station 11: Updrafts and Hail**

* **Visit LvmsScience.weebly.com**
* **Go to the bottom and click weather.**
* **At the weather page, under stations click “updrafts and Hail”**
* **As you watch the video, create a flow map displaying the steps in making hail.**
* **Pause and rewind as needed.**
* **(If you don’t know what flow map looks like, look at our thinking maps on the wall)**

**Weather Station 12: MAKE A THUNDERSTORM**

**MATERIALS:**

* **clear, plastic container (size of shoebox)**
* **red food coloring**
* **ice cubes made with blue food coloring**

**PROCESS:**

**Fill the plastic container two-thirds full with lukewarm water**

**Let the water sit for one minute.**

**Place a blue ice cube at one end of the plastic container.**

**Add three drops of red food coloring to the water at the other end of the plastic container. Watch what happens.**

**EXPLANATION:**

**The blue and cold water sinks while the red and warm water rises. This happens because of convection. The blue water represents the cold air mass and the red water represents the warm, unstable air mass. A thunderstorm is caused by unstable air and convection plays an important part. A body of warm air is forced to rise by an approaching cold front therefore thunderstorm’s form.**

**On your paper,… explain the phenomena in your own words.**