

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

# WEATHER and CLIMATE FINAL PROJECT

## **For a "4": SEVERE WEATHER VIDEO**

**Description:** Pick a Severe Weather Event in the history of the United States. In a 4-5 minute video, describe this event and its impact on the local area. Describe the typical weather for this area vs. this weather event. Have 2-3 "interviews" which detail what happened and why this happened here. Include how this storm was forecasted (how did they know it was coming), any information on Weather tools: Thermometer, Barometer, Anemometer, etc). Include why similar severe weather events happen in similar climates/locations. Include any information about how to remain safe in a future situation similar to this. Discuss other severe weather events that come along with this event type. (Ex. Hurricane → Flooding; Severe Thunderstorm → Flash Flood; Drought → Dust Bowl; Drought → Lightning → Wildfires; Blizzard → Avalanche)

**Severe Weather Event Examples:** Louisiana-Hurricane Katrina; Galveston, TX – Hurricane Ike and 1906 Hurricane; Colorado – Big Thompson Flood; Colorado River Drought in the Western U.S.

**Other Requirements:** Include any important geological features which could have helped create this weather event. Weather Maps. And Forecasting.

### **Final Product should look like:**

- A) A typed script (400 words minimum) for what you say in your video. You can record your own voice, or character can talk for you from your original script (no copying and pasting).
- B) A description of how this event looked to forecasters. (use radar maps)
- C) Your video ready to present.

**How to turn in/present:** You will have this prepared and ready to show on a school laptop to a peer group. (Some ways of creating this: School Tube, Digital Story, Animoto, XtraNormal, video burned to DVD, video on email, video on flash drive, Claymation video, YouTube, etc) Check out [CoolToolsforSchools Wiki](#) for other ideas!

## **For a "3": SAFETY BROCHURES**

**Description:** Select 2 different climates on Earth. For each climate, create a brochure which describes how people can remain safe if in severe weather event in that area. Each brochure must include a step-by-step safety plan for neighborhoods (including evacuation routes, house safety ideas, pet concerns, how to help elderly/children/immobilized persons, how families can prepare, where to remain safe, etc. Include how scientists can "forecast" the weather patterns coming.

**Examples:** avalanches, droughts, floods, hurricanes, tornados, blizzards, dust storms, wildfires, typhoons, lightning.

**Other Requirements:** Include 300 words between the two brochures. 4-5 pictures per brochure, 2-3 factual (not made up) graphs showing information relating to this safety concern (Radar, rainfall, wind speeds). (Example: # of lightning strikes on baseball fields in Grand Junction, Co in the month of June.)

**Final Product should look like:** 2 colorful, 2-sided brochures with pictures and typed text, explaining 2 separate safety plans for 2 climates.

**How to turn in/present:** Print off each brochure and be ready to present each climate event safety plan procedure to your peer group.

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## **For a "2": WEATHER DICTIONARY**

**Description:** For this assignment, you will be creating a Weather and Climate Dictionary that could be used for someone who is just learning about weather and climate. You will select a variety of words from this unit to create your final product. Each page should include the word, a colored picture of this idea, a definition in your own words (this should not be "googleable", and an example of using this word.

**Other Requirements:** Be sure to include the following words in your dictionary: (the rest of the letters you can choose the words relating to weather and climate, since this is a "Weather Dictionary")

*A: Atmosphere    B: Barometer    C: Climate    F: Forecast    S: Safety    W: Weather*

**Final Product should look like:** A Book with 26 individual pages (or back to back). Stapled, bound or tied together. If you would like to have it bound with a plastic binding, see Mrs. Ragsdale after school sometime. ☺

**How to turn in/present:** You will select 10 letters/words to show and explain to your peer group.

### **PROJECT SELECTION (CIRCLE ONE):    2: DICTIONARY    3: BROCHURE    4: VIDEO**

**Day 1 Goal:** \_\_\_\_\_.

**Day 2 Goal:** \_\_\_\_\_.

**Day 3 Goal:** \_\_\_\_\_.

**Step 1:** Select Project Type and \_\_\_\_\_

**Step 2:**

**Step 3:**

**Step 4:**

**Step 5:**

**Step 6:**

**Step 7:**

**Step 8:**

**Step 9:**

**Step 10:** Present to Peer Group on Presentation Day and Self-Evaluate Project on \_\_\_\_\_.

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

<b>EVALUATOR</b>	<b><u>What Worked well with project.</u></b>	<b><u>What could be changed for better.</u></b>
<b>SELF</b>		
<b>PEER</b>		
<b>TEACHER</b>		