ESS 100 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Climate Map Project – Grading Rubric, with directions on the back

Overall Goal: Create a series of 10 video clips showing and explaining the climate features of your fictitious continent. Upload your videos to your Google Drive. Then insert each video into a slide in a Google Slide show in the order below.

Scoring:

3 = Excellent; complete with no significant mistakes 2 = Mostly correct, but with some mistakes or missing information

1 = Included, but mostly wrong or mostly missing 0 = Not included at all

0. General Requirements:

\_\_\_\_ All of the videos are upright (not turned sideways or upside-down).

\_\_\_\_ The elements below appear one at a time. In other words, Video number 2 should show only the pressure belts. Video number 3 should show only the pressure belts and winds. Video 4 should show only the pressure belts, winds, and ocean currents…

\_\_\_\_ The numbered items below appear in the order listed below.

\_\_\_\_ Narration is clear and easy to understand, with adequate volume.

\_\_\_\_ You have used your hands or a pointer consistently to point out and explain features on your map.

\_\_\_\_ You are not drawing during any of the videos. Features should be pre-drawn to save time.

\_\_\_\_ The map is neat and/or artistic.

\_\_\_\_ The presentation is well organized.

\_\_\_\_ Your Google Slideshow has an appropriate title

1. Slide 1 Video -- Introduction:

\_\_\_\_ Clearly describe the goal of this project: to create a fictitious island continent and to then draw a map of the climates that would exist on this continent if the continent were on Earth. Part of the goal is also to explain the reasons behind all of the climates that you drew. At this time, you might want to show a photo of your completed continent map.

2. Slide 2 Video -- Pressure Belts:

\_\_\_\_ All pressure belts are included and correctly placed.

\_\_\_\_ Explain why the pressure belts exist in these locations.

3. Slide 3 Video -- Prevailing Winds:

\_\_\_\_ All of the winds blow in the correct direction.

\_\_\_\_ All of the winds have the correct curve.

\_\_\_\_ Explain why the winds blow in the directions you have shown.

\_\_\_\_ Explain why the winds curve as you have shown them to curve.

4. Slide 4 Video -- Ocean Currents:

\_\_\_\_ At every latitude, currents flow in the correct directions. They do not flow against the wind.

\_\_\_\_ The currents have the correct color (warm or cold).

\_\_\_\_ Explain why the currents flow in the direction that they do.

\_\_\_\_ Explain why some of the currents are warm, while others are cold.

5. Slide 5 Video -- Current Simulator:

\_\_\_\_ Explain how the simulator works.

\_\_\_\_ Show your laser cut continent in the current simulator.

\_\_\_\_ Point out the warm and cold currents.

6. Slide 6 Video -- Major Rainforests and Deserts:

\_\_\_\_ The rainforest(s) and desert(s) are at the correct latitudes.

\_\_\_\_ The rainforests and deserts have the correct shape (smaller on one side).

\_\_\_\_ Explain what causes the major rainforest and desert climates.

7. Slide 7 Video -- Coastal Wet:

\_\_\_\_ Coastal wet climates are in the correct locations.

\_\_\_\_ Explain why these areas are wet.

8. Slide 8 Video -- Rain Shadow Wet and Dry Climates:

\_\_\_\_ Show the correct wet and dry areas that are associated with the rain shadow effect.

\_\_\_\_ Explain why the climate is wet on one side of the mountains and dry on the other side.

9. Slide 9 Video -- Humid Climates:

\_\_\_\_ Humid climates are in the correct locations.

\_\_\_\_ Explain what causes these climates to be humid.

10. Slide 10 Video -- Conclusion

\_\_\_\_ Wrap up you project with an appropriate conclusion

Total Score = \_\_\_\_\_\_\_ / 100

Project Directions:

1. Create a black and white version of your basic map. This map version should show only the coastlines and mountains. Make sure that Mr. Stapleton has a copy of this original, so that you can get more identical copies if you need them.
2. Create a rough draft copy of all of your continent’s climate features.
3. Use the provided template to create a Google Slideshow, and share it with Mr. Stapleton. Submit a link to your slideshow using the Google form that he sent to you.
4. Pressure belts
   1. Carefully draw only your pressure belts.
   2. After drawing your winds, use a Chromebook and one of the classroom camera stands (or a chair) to create a video in which you show and explain your pressure belts. The video should feature your voice and either your hands or some type of a pointer that you use to show and explain your pressure belts. If you want, you may create an additional diagram (of the circulation in the atmosphere) to use in this video. Before you start your video, make sure that your camera is going to create the video right-side-up. If your video is not upright, you will have to make a new one.
   3. Share your video with Google Drive.
5. Winds
   1. Now add only your winds to your map. Draw them carefully and neatly.
   2. Next create a video in which you explain and share your winds. You must explain why the winds blow in the general direction shown, as well as why they curve.
   3. Share your video with Google Drive.
6. Other Features -- Ocean Currents, Major Deserts & Rainforests, Coastal Wet, and Humid Climates
   1. Add each of these features to your map, one at a time
   2. Create a video for each newly added feature.
   3. Share each video with Google Drive.
7. Introduction and Conclusion
   1. When your map is complete, create a video introduction to the project.
   2. Next create a video conclusion wrapping up your project.
8. Finishing your slide show:
   1. Insert your videos into your Google Slideshow. Make sure that each video is on the right slide.