**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_**

**Penguin Drive-thru Data Jam**

Goal - Examine data collected on Adelie and Gentoo penguins in Antarctica, and then design a creative project that explains one part of these data to a nonscientist audience. A good Data Jam project is:

Clear: Represent the data accurately and in a way that is understandable to non-scientists. Make sure to include a legend explaining how you represent the data (e.g., one water droplet picture represents 1 millimeter of precipitation) or make reference to specific data.

Creative: Use your imagination! Whether you choose to make an infographic or to write a poem, try to make your data presentation as creative as possible!

Concise: Keep it short and to the point. Focus on one important trend in the data.

Project Directions

1. Decide if you would like to work with one or two other students to complete your Climate Data Jam project.

2. Fill out the Planning and Brainstorming Notes section below.

3. Create your project (infographic or poem) and prepare it for the gallery walk.

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| --- |
| **Planning and Brainstorming Notes**  1. Look at the datasets carefully and list trends you might like to explain to your audience. What are some things you notice about the data?  2. Choose the type of creative project you will make (circle one): Infographic Poem |

**Data: Adelie and Gentoo Penguin Location Data**

These data were acquired from the Palmer Deep Region of the Western Antarctic Peninsula. The data comes from tagged penguin data files which log the location and depth of a particular penguin at one date and time.

**Data: Codar**

These data were collected in Antarctica in January 2020. Codar is used to measure the direction and strength of surface currents.

**Data: Sea Ice Cover, Chlorophyll, Air Temperature and Sea Surface Temperature**

These data were collected over an entire year at Palmer Station in Antarctica.

**Penguin Data Jam Gallery Walk Preparation**

Each group will display their Penguin Data Jam project to the rest of the class during a gallery walk. To be sure that your classmates understand your creative project, include the following on your creative project or on a separate piece of paper near your creative project while it is on display.

3. Names of all the students who worked on the project.

4. The title of your project. Make sure it is descriptive.

5. List the data trend you are trying to communicate through your project.

6. After the class discussion, write the larger trend found in the Penguin Data Jam. This is the phenomenon we will make sense of throughout this unit.