

Task 4: Student Page Climate Change

Name \_\_\_\_\_ Date \_\_\_\_\_

From the website, choose 5 years of consecutive data from an earlier time, (perhaps somewhere in the 1970's) and 5 years of consecutive data since 2000. (Some years will not have data and will be notated with a (z) next to an entry of 0, so you need to choose 5 years that have data for each month.) Fill in the data on the table below. You will then access an online conversion site to convert data into metric measurements.

| Year (1970, etc.) | Average Temperature in Fahrenheit | Average Temperature in Celsius | Amount of Precipitation in Inches | Amount of Precipitation in Centimeters |
|-------------------|-----------------------------------|--------------------------------|-----------------------------------|--|
| 1                 |                                   |                                |                                   |  |
| 2                 |                                   |                                |                                   |  |
| 3                 |                                   |                                |                                   |  |
| 4                 |                                   |                                |                                   |  |
| 5                 |                                   |                                |                                   |  |
| -----             | -----                             | -----                          | -----                             | -----                                  |
| 1                 |                                   |                                |                                   |  |
| 2                 |                                   |                                |                                   |  |
| 3                 |                                   |                                |                                   |  |
| 4                 |                                   |                                |                                   |  |
| 5                 |                                   |                                |                                   |  |

1. Using this data, create a graph on graph paper. Remember that the best graph for data over time is a line graph. In this case, you will have a double line graph showing a line for temperature and a line for precipitation. Title your graph and label the X and Y axes. Create a reasonable scale and include a legend that identifies each line with a different color.

2. Using Excel in Microsoft Office (or other spreadsheet, graphing tool), enter your data into the spreadsheet and produce a double line graph. You can add trend lines to help you see more clearly whether temperatures have increased or precipitation decreased in you area.

3. Based on your data and graph, do you believe climate change is happening in your local area? Are temperatures rising? Is precipitation declining? \_\_\_\_\_

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