Climograph Assignment

Social Studies 9

MATERIALS

* Graph paper
* Two different pencil crayon colours for the temperature line graph and the precipitation bar graph
* Computer with Microsoft Excel and printer

DESCRIPTION

1. You will create different climographs for the three cities below
2. You must complete one graph by hand and one on the computer. You may select the style you wish to use for the third graph.
3. Each graph needs a title (the city name), a temperature axis and a precipitation axis. Months must be listed (abbreviations are fine) on the bottom of each graph. \*\*\*See your text book for examples.
4. Determine and write the range for both temperature and precipitation.
5. Use the following websites to help guide you in your computer versions (\*\*\*Note: we will be using Microsoft Excel)
	1. <http://www.nationalgeographic.com/xpeditions/lessons/15/g912/creatingclimograph.pdf>
	2. <http://www.contextures.com/linecolumncombinationchart.html>

ASSESSMENT

* Each graph will be evaluated with the following criteria
	+ Correctly labelled (units included) and spaced axes (6 points)
	+ Title (1 point)
	+ Ranges indicated and accurate (2 points)
	+ Correctly plotted bar graph for precipitation (5 points)
	+ Correctly plotted line graph for temperature (5 points)
	+ Overall neatness and appearance (1 point)
	+ TOTAL PER GRAPH: 20 points

DATA

Whitehorse, YT

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | J | F | M | A | M | J | J | A | S | O | N | D |
| Average monthly temperature(°C) | -18 | -12 | -6 | 0 | 7 | 12 | 14 | 12 | 7 | 1 | -9 | -15 |
| Average monthly precipitation (mm) | 17 | 12 | 12 | 8 | 14 | 31 | 39 | 39 | 35 | 23 | 19 | 19 |

Inuvik, NWT

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | J | F | M | A | M | J | J | A | S | O | N | D |
| Average monthly temperature(°C) | -28 | -28 | -23 | -13 | 0 | 11 | 14 | 11 | 3 | -7 | -21 | -25 |
| Average monthly precipitation (mm) | 16 | 11 | 11 | 13 | 19 | 22 | 34 | 44 | 24 | 30 | 18 | 17 |

Long Beach, CA

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | J | F | M | A | M | J | J | A | S | O | N | D |
| Average monthly temperature(°C) | 13 | 14 | 15 | 17 | 18 | 20 | 23 | 24 | 22 | 20 | 16 | 13 |
| Average monthly precipitation (mm) | 63 | 63 | 50 | 17 | 4 | 1 | 0 | 3 | 7 | 7 | 42 | 43 |