**Climate Assignment**

It is difficult to combine all six of these factors to analyze climate patterns and predict weather. Climate and weather specialists need a lot of training to make accurate forecasts! We will examine these factors individually to help us understand.

* Mark Hanover, Edmonton, Windsor, and Yellowknife on this map of Canada.
* *Use your climographs, atlas, worksheets, and problem-solving skills to complete this table.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Hanover | Edmonton | Windsor | Yellowknife |
| Based on latitude, rank the towns from warmest to coldest. |  |  |  |  |
| Will any of these cities be influenced by ocean currents? If so, name the current. |  |  |  |  |
| Use the correct short-forms to identify the type of air mass you expect to find in each town. |  |  |  |  |
| Use your atlas to find the approx. elevation of each town.  |  |  |  |  |
| Based on the elevation, rank the towns from coldest to warmest. |  |  |  |  |

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| --- | --- | --- | --- | --- |
|  | Hanover | Edmonton | Windsor | Yellowknife |
| Looking at a topographic of map, determine whether each town would be in the windward or leeward region (with respect to local hills and mountains). |  |  |  |  |
| Examine the bodies of water near each town. Do you predict the town will show maritime, continental, or modified continental climate? Why? |  |  |  |  |
| Calculate the annual temperature range |  |  |  |  |
| Calculate the total annual precipitation |  |  |  |  |
| Compare the temperature range and annual precipitation to the values for Vancouver and Regina. Now which type of climate do you think each town represents? |  |  |  |  |