



Climate Exercise #1

Introduction: Canada is the second largest country in the world. This represents a huge area. As such, it is a country of great diversity. Climate is one example of this. The following series of exercises will, among other things, endeavour to prove this to you.

Temperature and Precipitation Variation

➤ Temperature and precipitation are two key features of climate.

[1] *Examine the handout entitled, "The Toronto Star Forecast." Describe the weather forecast for each city below. Comment on each of the two key features: temperature and precipitation.*

	Temperature	Precipitation
Vancouver	_____	_____
Calgary	_____	_____
Regina	_____	_____
Winnipeg	_____	_____
Toronto	_____	_____
Ottawa	_____	_____
Montreal	_____	_____
Quebec	_____	_____
Halifax	_____	_____
St. John's	_____	_____

[2] *Define the following terms:*

Weather _____

Climate _____

Temperature _____

Humidity _____

Wind _____

[3] Use the list of cities under the map. Provide the following information:

Canada

(a) Warmest Canadian city: _____ Prov/Terr: _____
(b) Coldest Canadian city: _____ Prov/Terr: _____

United States

(a) Warmest American city: _____
(b) Coldest American city: _____

World

(a) Warmest World city: _____ Country: _____
Continent: _____
Hemisphere: _____

(b) Coldest World city: _____ Country: _____
Continent: _____
Hemisphere: _____

Terminology and Weather Patterns Found on Weather Maps

[1] Study the Canada and US forecast map. There are a number of terms there. Try to figure out what these mean.

(a) Low Pressure _____

(b) High Pressure _____

(c) Cold Front _____

(d) Warm Front _____

(e) Stationary Front _____

[2] *Using the direction the fronts are moving (note: the arrows), what would you predict the weather to be like in the following places in the next day or two.*

- (a) Toronto _____
- (b) Halifax _____
- (c) Vancouver _____
- (d) Chicago _____

Environmental Concerns

In the past few years a number of new pieces of information have been added to weather forecasts:

- (a) Air Pollution Index
- (b) Ultraviolet Level (UV) Index

[1] *What does each indicate?*

(a) _____

(b) _____

[2] *Based on this information, was it a safe day to go out for a long walk if you were someone with some respiratory problems and very fair, unprotected skin? Explain your reasons.*

