

WHAT DO THESE STATEMENTS HAVE IN COMMON?

- The high temperature today will be 14 degrees.
- Yesterday we had a tornado.
- I have never seen it snow like this before!

WHAT DO THESE STATEMENTS HAVE IN COMMON?

- Over the last decade the ice cap has been receding.
- Each year the monsoons come in the Spring.
- We have four seasons every year: Spring, Summer, Fall and Winter.

CLIMATE VS. WEATHER





WEATHER

- Describes the changes in the atmosphere on a particular day, in a particular place.
- Includes temperature, precipitation, wind, etc.



Hurricane Sandy is an example of weather.

CLIMATE

- Refers to the average weather of an area over decades or centuries.
- You can use climate information to predict what conditions might be like in a particular place at a certain time of year.



How does the climate where you live affect your way of life and day-to-day activities?





HOW CLIMATE AFFECTS US?

- What we can grow and eat.
- What we wear.
- The types of shelters we build.
- What activities we can do.





CLIMATE IN CANADA

SPATIAL SIGNIFICANCE

What is where?

Why there?

Why Care?

WHAT IS WHERE?

What is happening?

→ Describe in detail the issue/event

Where is it happening?

- → Name the location of the event.
- → Is this a repeating/common event (patterns/trends)

WHY THERE?

- → What has caused this event to occur?
- → Is this an issue/event caused by people or nature? Explain

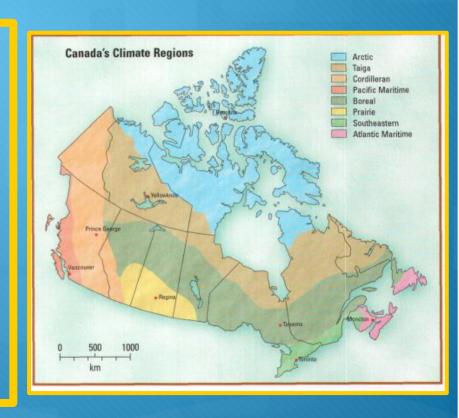
WHY CARE?

- → Think the different peoples perspective on this issue/event.
- \rightarrow Which SDG(s) does it relate to? Use this link to find the specific targets for each SDG

What is Where?

ISSUE:

- Climate in Canada.
- Canada is split into Climate Regions
- Impact climate change will have on the different climate regions in Canada.



Why There?

Climate is determined on physical location & surrounding features.





CANADA'S OCEANS

Canada is a very large country that is surrounded by 3 different oceans. Which oceans are they?

Atlantic
Ocean
(on the east coast)

Pacific Ocean (on the west coast)

Arctic Ocean (in the north)

These oceans impact the climate of the provinces/regions near them.



MARITIME CLIMATE

Provinces/regions that are close to one of the oceans will have a MARITIME CLIMATE

Characteristics:

- Small annual temperature range (difference between hottest and coldest temperatures is small)
- High precipitation (it will rain or snow a lot throughout the year, much more than 1000mm)

Name two cities that may have a MARITIME CLIMATE because they are near an ocean.



CONTINENTAL CLIMATE

Provinces/regions that are inland (away from ocean) will have a **CONTINENTAL CLIMATE**

Characteristics:

- Large annual temperature range (difference between hottest and coldest temperatures is big)
- Low precipitation (it will not rain or snow a lot throughout the year, much less than 1000m)

Name two cities that may have a CONTINENTAL CLIMATE because they are inland; away from a large body of water.



MODIFIED CONTINENTAL CLIMATE

Provinces/regions that are inland but near the Great Lakes will have a MODIFIED CONTINENTAL CLIMATE

Characteristics:

- Large annual temperature range (difference between hottest and coldest temperatures is big)
- Slightly high precipitation (it will not rain or snow a lot throughout the year, around 1000m)

Name two cities that may have a MODIFIED CONTINENTAL CLIMATE because they are near the Great Lakes.



Why Care?

- Human activity creating quick/less natural climate change
- Impacts
 resources, wildlife
 & human health







Why Care?

13 CLIMATE ACTION



If we don't address climate change we will fall back on all the development we have done around the world in the last 30 - 50 years. **Climate Change impacts** all other goals, education, poverty, clean water, etc.





Massive Earthquake in Mexico City, September 2017

PRACTICE

What is Where?

Why There?

Why Care?



What is Where?

A 7.1 magnitude earthquake near Raboso, Mexico





Why There?

- Mexico is located near a tectonic plate boundary
 - North American
 Plate & Cocos Plate
- When two plates collide or slip by each other it creates an earthquake



Why Care?







Use this link to find the specific targets for each SDG

CANADA'S "BIG ONE"

- WIW? → Potential earthquake near Vancouver, Canada
- WT? → Located near a plate boundary (Pacific Plate & Jaun De Fuca)
- WC? → as discussed

Cascadia Subduction Zone



The Cascadia Subduction Zone is a 1000 km fault that runs from Northern Vancouver Island to Northern California. The fault itself is a boundary between two tectonic plates: the Juan de Fuca tectonic plate and the North American plate that we live on.

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