

Grade 2 Social Studies: October 5 – October 9, 2020

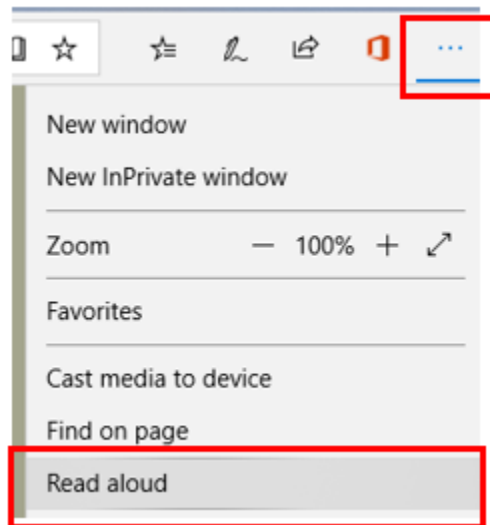
Lesson Focus: What can Maps, Graphs and Charts Tell Us About Earth’s Climate?

Materials:

- Internet access for videos
- Notebook; art supplies

Invitation to Learn: Gathering evidence about Earth’s climate from different sources of information.

(Technology Hint: if you launch these sites using Microsoft Edge Browser, you will have access to the **READ ALOUD** option. Click the triple dots at the top right corner to find this.



Watch and read the following. Be ready to discuss what you have learned.

Weather and Climate

<https://climatekids.nasa.gov/menu/weather-and-climate/>

Difference Between Weather and Climate

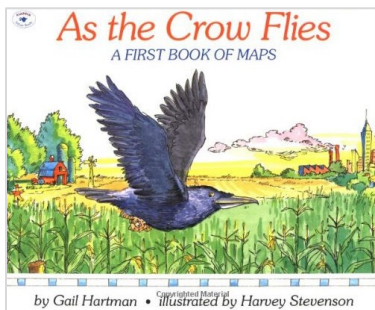
<https://www.youtube.com/watch?v=vH298zSCQzY>

Weather vs Climate

<https://www.youtube.com/watch?v=YbAWny7FV3w>

As the Crow Flies. By Gail Hartman

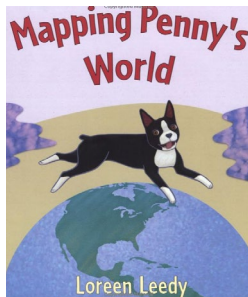
<https://www.youtube.com/watch?v=zXXjIZBgBIU>



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Mapping Penny's World. By Loreen Leedy

https://www.youtube.com/watch?v=fDTQ3gP_szg



Ask/Discuss:

What do the words "weather" and "climate" mean?

- Weather is the daily state of the atmosphere/air in any given place such as rain, sunshine, snow, and wind.
- Climate is the pattern of weather over a long period of time.
 - While weather can change every few hours, climate can take hundreds or thousands of years to change.

What does the word "infer" mean?

- To infer means to make a guess based on facts and observations.

What does the word "precipitation" mean?

- The liquid and solid water particles that fall from clouds and reach the ground are known as precipitation.

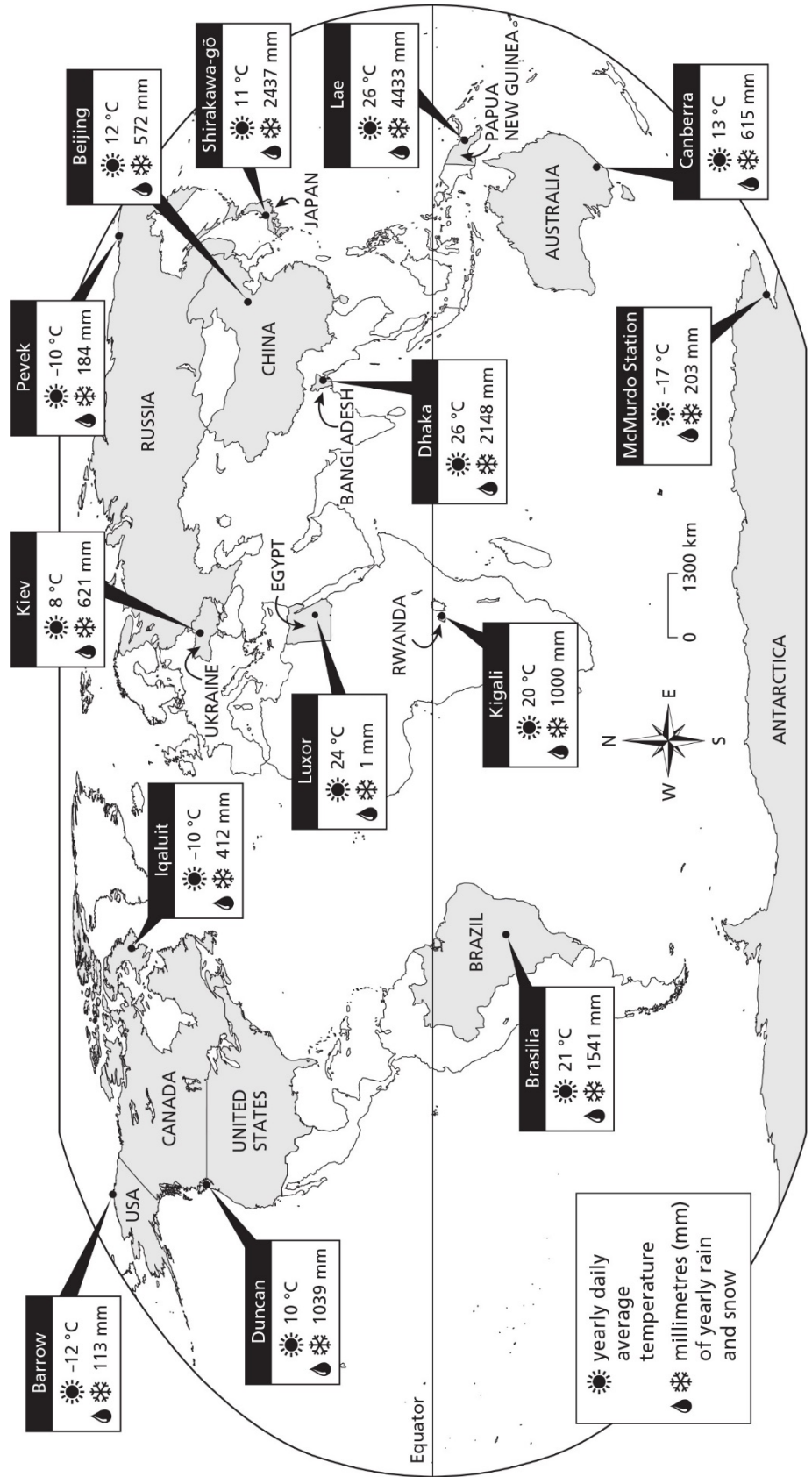
Have a Discussion using World Climate Map (next page):

This map shows the yearly average temperatures and precipitation of different places throughout the world.

- Where are the warmest places?
- Where are the coldest places?
- Which places get the most precipitation?
- Which places get the least precipitation?
- What can you infer from this map?

World Climate Map

Look at the map to learn about the climate of different places around the world.



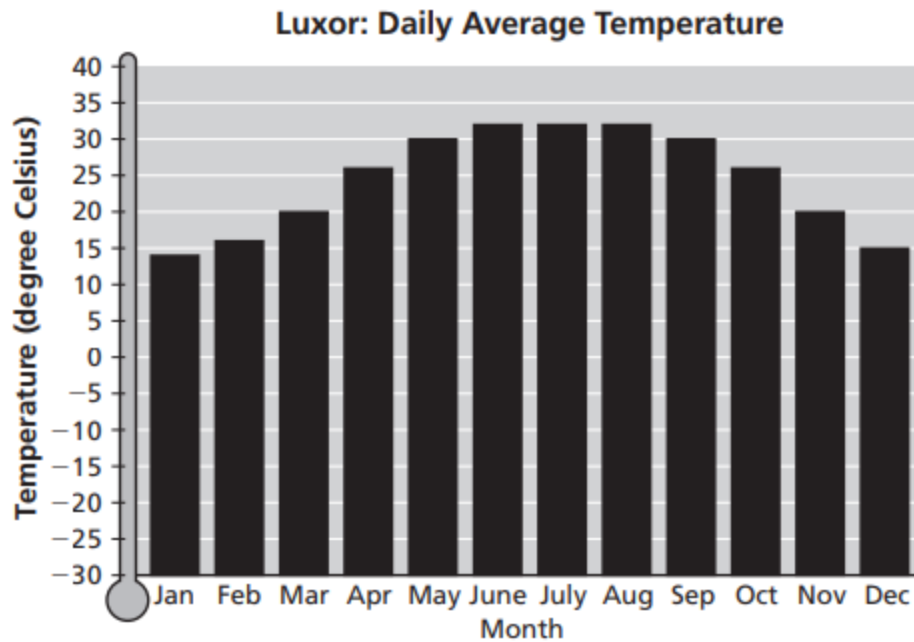
Have a Discussion using Climate of Communities (next page):

The bar graphs present numbers visually and allow us to compare information. The negative numbers on the temperature graphs for Shirakawa-go and Iqaluit are below 0 degrees Celsius (the freezing point).

- Which community is the warmest?
- Which is the coldest?
- Which gets the most rain and snow?
- Which gets the least?

Climate of Communities

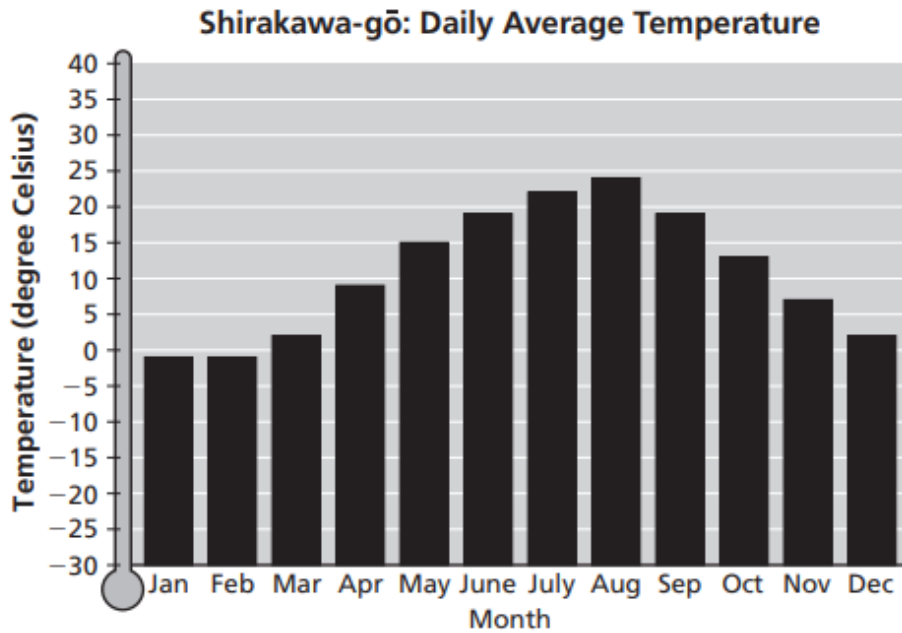
Look at the bar graphs and charts to learn about the climate of each community.



Rain in Luxor (millimetres)

| | |
|-----------|---|
| January | 0 |
| February | 0 |
| March | 0 |
| April | 0 |
| May | 0 |
| June | 0 |
| July | 0 |
| August | 0 |
| September | 0 |
| October | 1 |
| November | 0 |
| December | 0 |

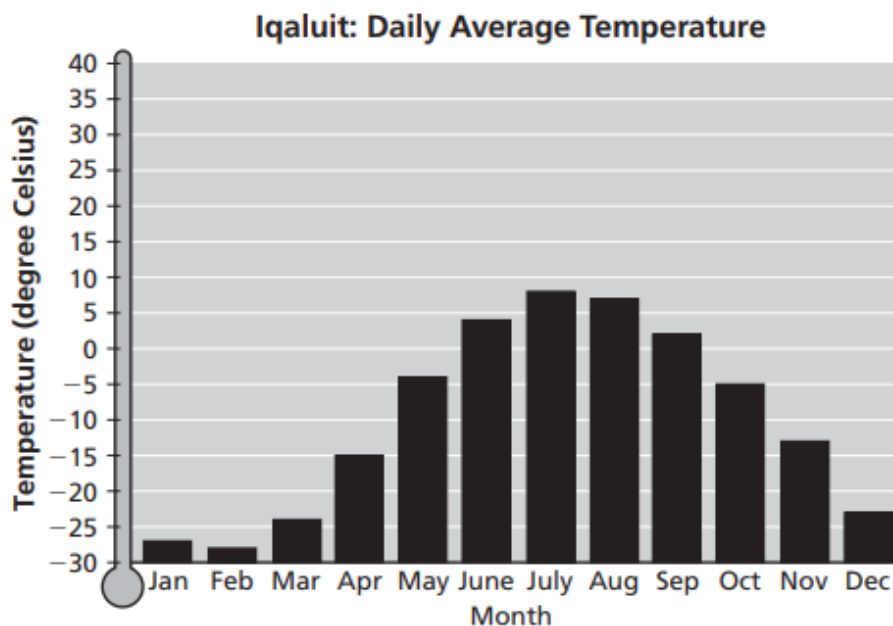
Climate of Communities *(continued)*



Rain and Snow in Shirakawa-gō (millimetres)

| | |
|-----------|-----|
| January | 275 |
| February | 213 |
| March | 195 |
| April | 143 |
| May | 140 |
| June | 204 |
| July | 280 |
| August | 165 |
| September | 223 |
| October | 148 |
| November | 201 |
| December | 250 |

Climate of Communities *(continued)*

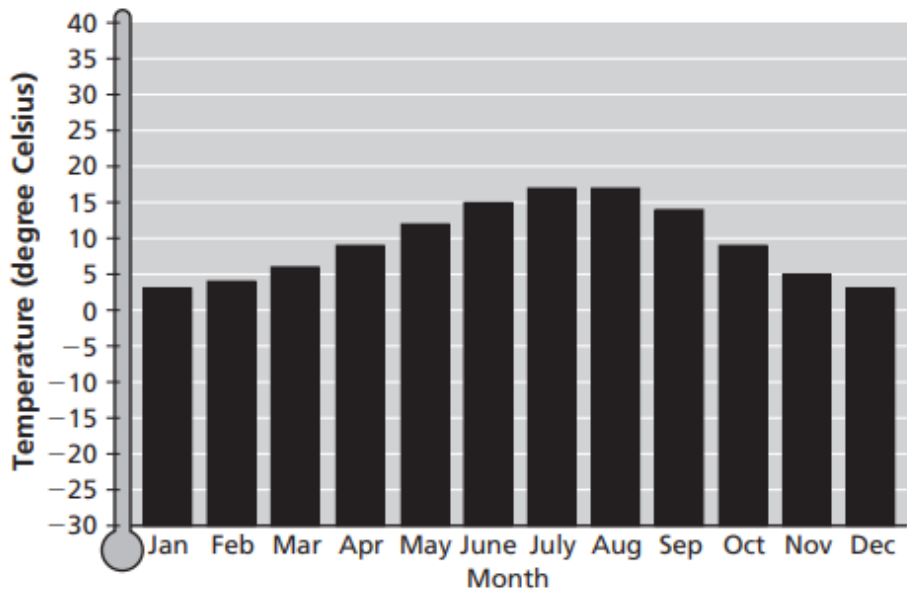


Rain and Snow in Iqaluit (millimetres)

| | |
|-----------|----|
| January | 21 |
| February | 15 |
| March | 22 |
| April | 28 |
| May | 27 |
| June | 35 |
| July | 59 |
| August | 66 |
| September | 55 |
| October | 37 |
| November | 29 |
| December | 18 |

Climate of Communities *(continued)*

Duncan: Daily Average Temperature

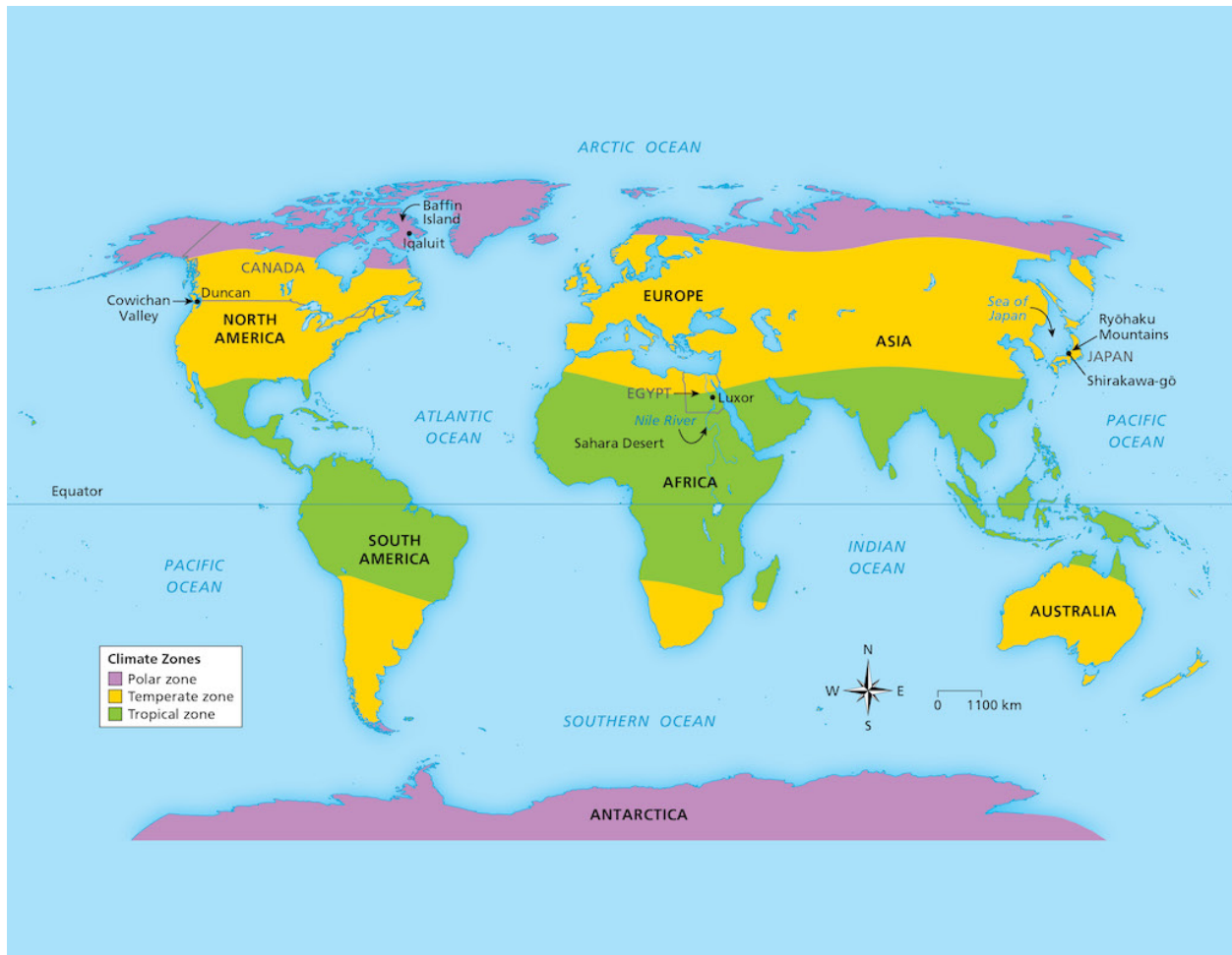
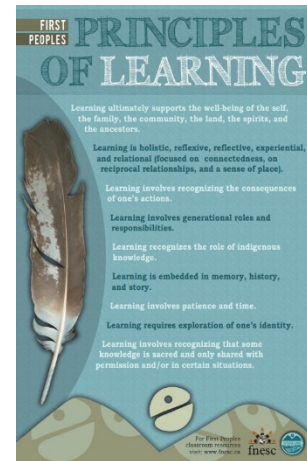


Rain and Snow in Duncan (millimetres)

| | |
|-----------|-----|
| January | 145 |
| February | 130 |
| March | 102 |
| April | 54 |
| May | 44 |
| June | 37 |
| July | 20 |
| August | 25 |
| September | 47 |
| October | 80 |
| November | 169 |
| December | 186 |

Learning from First Peoples

First People's traditional knowledge and understanding of climate has enabled them to live successfully in their environment. For example, they built homes suitable to their climate; they followed the migration patterns of mammals, birds, and fish that they relied on for food and resources; they knew when to collect plants for food, medicine, and other uses.



Look at the image.

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Ask:

- What map features do you see? (*Answer Examples:* Compass Rose, Legend, Scale)
- How do these map features help you learn about the climate zones of the world? For example, what does the legend tell you?
- Where is Duncan? What climate zone is it in? What can you infer about Duncan from this climate zone?
- Where is Iqaluit? What climate zone is it in? What can you infer about Iqaluit from this climate zone?
- Looking at the polar zone what can you infer about what life is like in this region?
- Where is Shirakawa-go? What climate zone is it in? What can you infer about Shirakawa-go from this climate zone?
- Where is Luxor? What climate zone is it in? What can you infer about Luxor from this climate zone?

Discuss:

- Climate is the pattern of weather over a long period of time. It determines what kinds of plants can grow and what animals can live in a place. It also influences what people do, how and where they live, and what they wear and eat.
- Different parts of Earth have different climate zones: polar, tropical, temperate.
 - The polar zones are the coldest zones because of limited sun exposure. There is little or no sunlight during winter in these zones, resulting in very long and cold winters in places like Iqaluit, Nunavut.
 - The tropical zones are near the equator. Places within this zone are among the warmest on Earth because the Sun's rays shine more directly over the equator. As a result, these zones are hot around the year. Warm air from the ocean blowing through the tropical zones brings a great deal of precipitation, resulting in rainy seasons. However, there are exceptions such as deserts, in these zones. Luxor, Egypt, for example, is in the Sahara Desert and gets almost no precipitation.
 - In temperate zones, temperatures can vary throughout the year depending on the position of the Sun. As a result, these zones have four seasons. Average temperatures are not extreme like those in the other two climate zones.

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Notebook Time:

Choose one listed community that you would like to visit:

- Luxor, Egypt
- Shirakawa-go, Japan
- Duncan, B.C.
- Iqaluit, Nunavut

Based on everything that you learned about climate from the graphs, charts, and maps create a **“My Packing List”** of 5 -10 items that you would take on your visit

- Create a My Packing List Poster (Can be digital)
- Include a picture/image of your community
- labelled images/illustrations of the 5 - 10 items that you would pack
- An explanation of why you included the items.

Extension Spark:

- Create a video of you presenting your MY PACKING LIST