

Geography

Term 2

Week 3

Geography



WALT – Use physical geography to explore the polar biome.

- S2S. I can:
 - □ read and understand information presented in a bar graph
 - □ analyse and describe the temperature changes in the arctic tundra during the year
 - □ explain why there is a lack of vegetation in the polar biome

Geography



The **Polar Biome** includes the ice sheets at the poles and areas of **Arctic Tundra**.



Geography



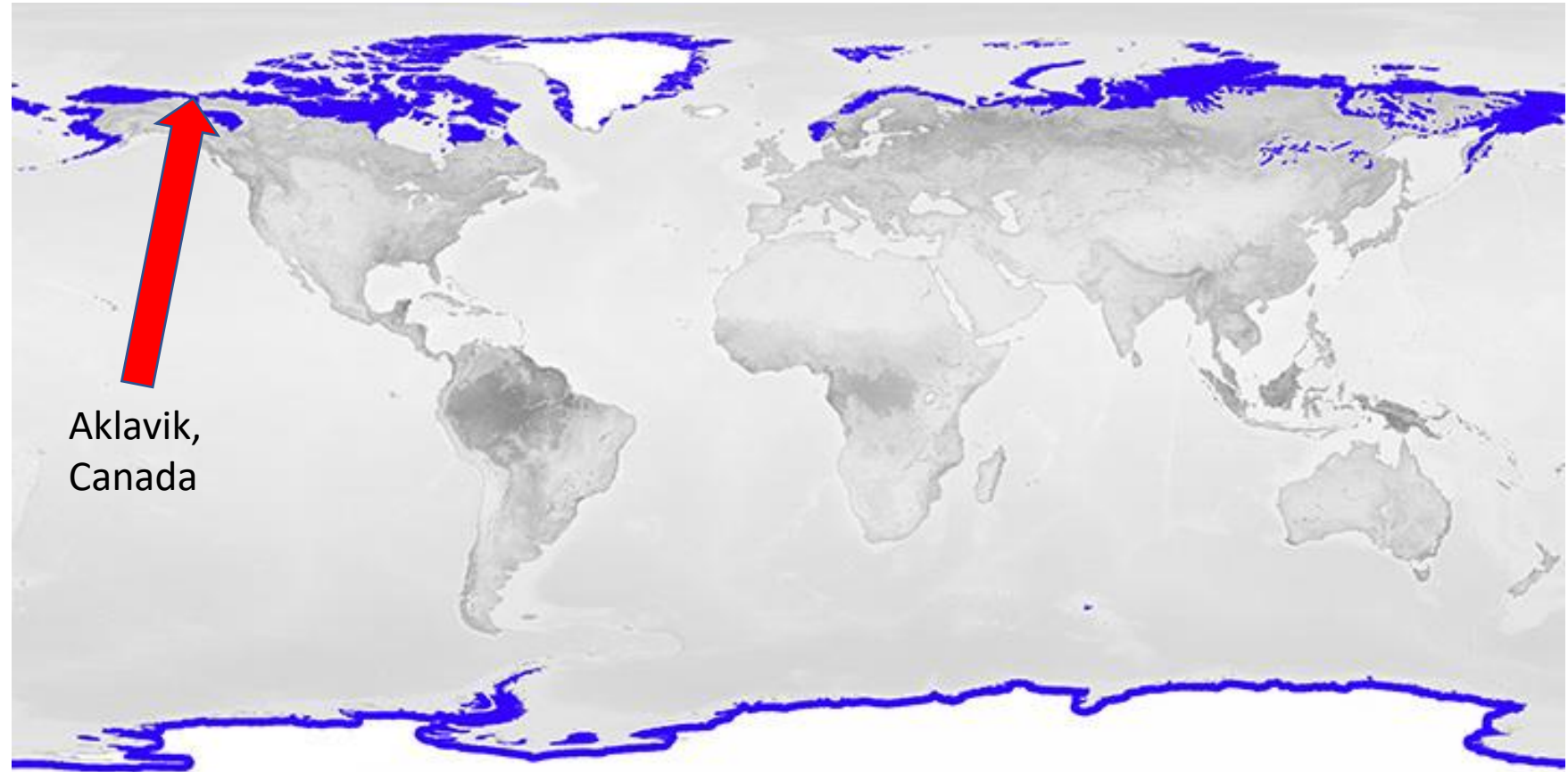
Where in the world can we find the Arctic Tundra?



- Ice



- Arctic Tundra



Aklavik,
Canada

Geography

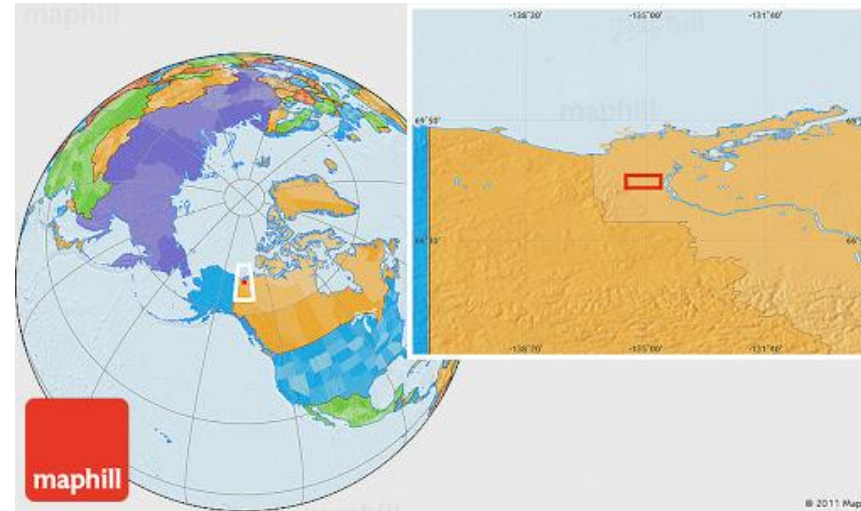


Aklavik, Canada

- How cold is it in Aklavik?
- Why do you predict this?

Summer – high temperature **14°C**

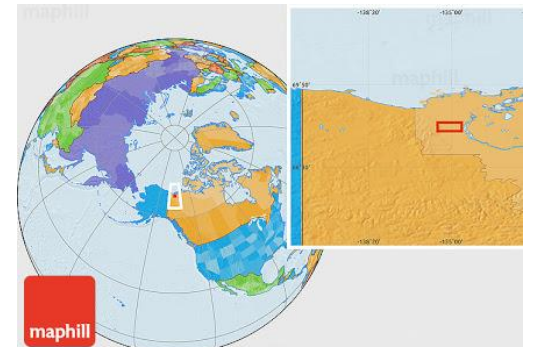
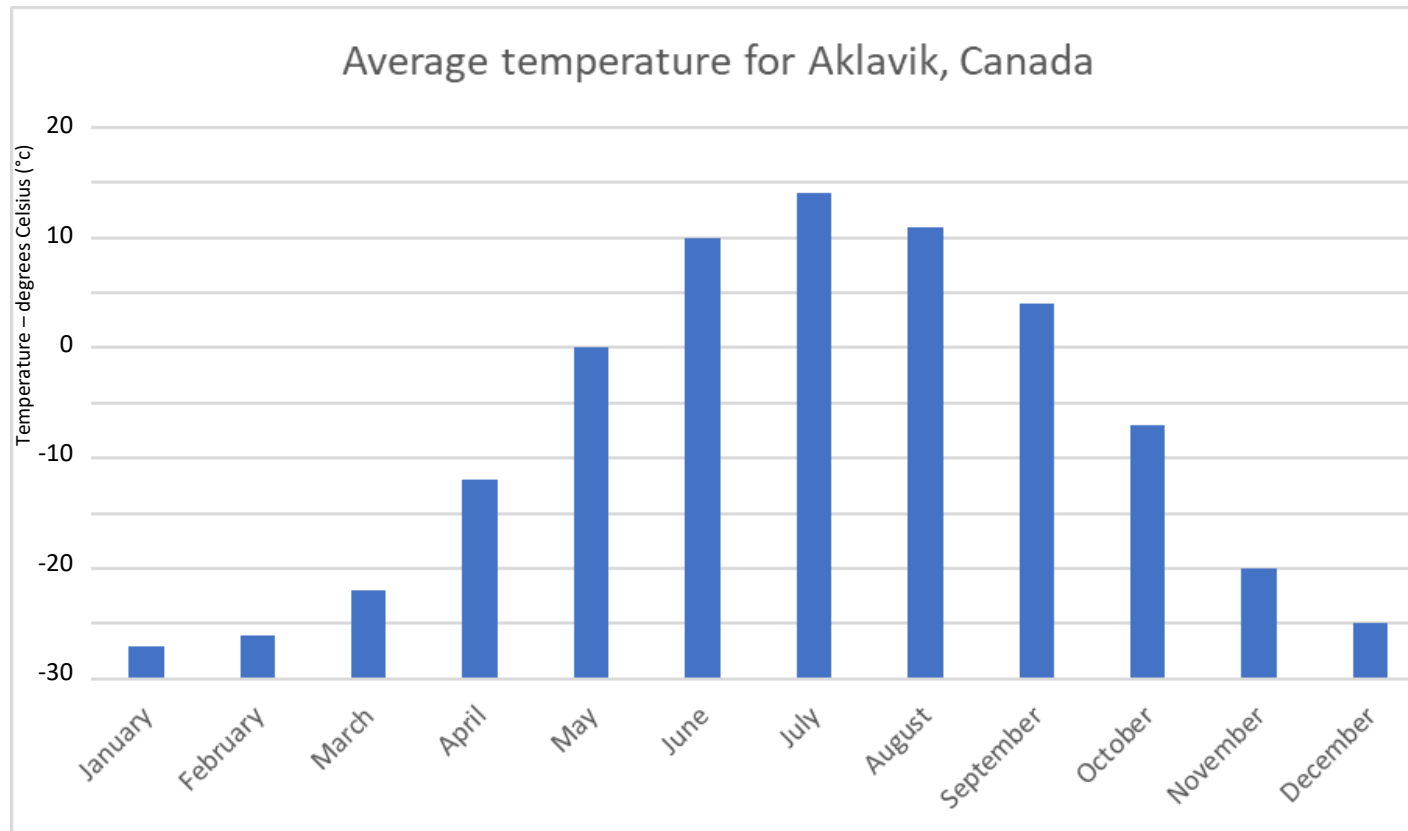
Winter – low temperature **-27°C**



Geography



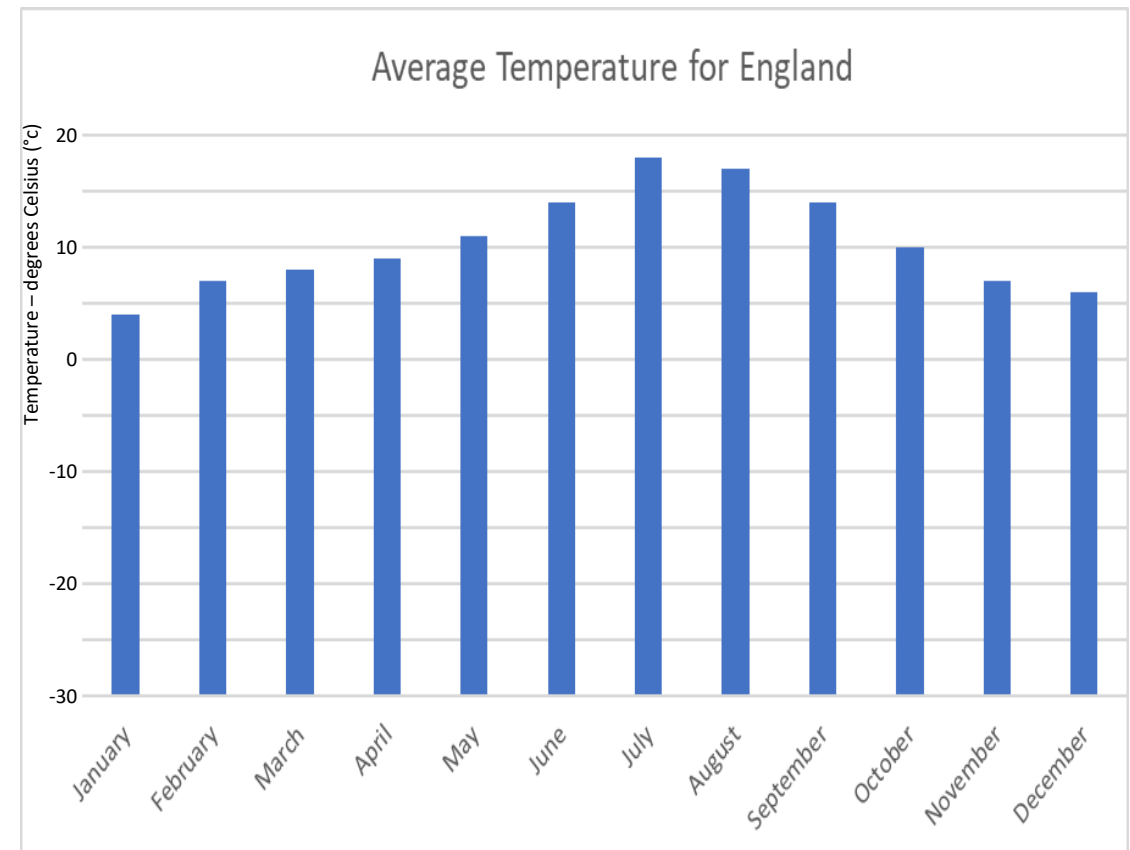
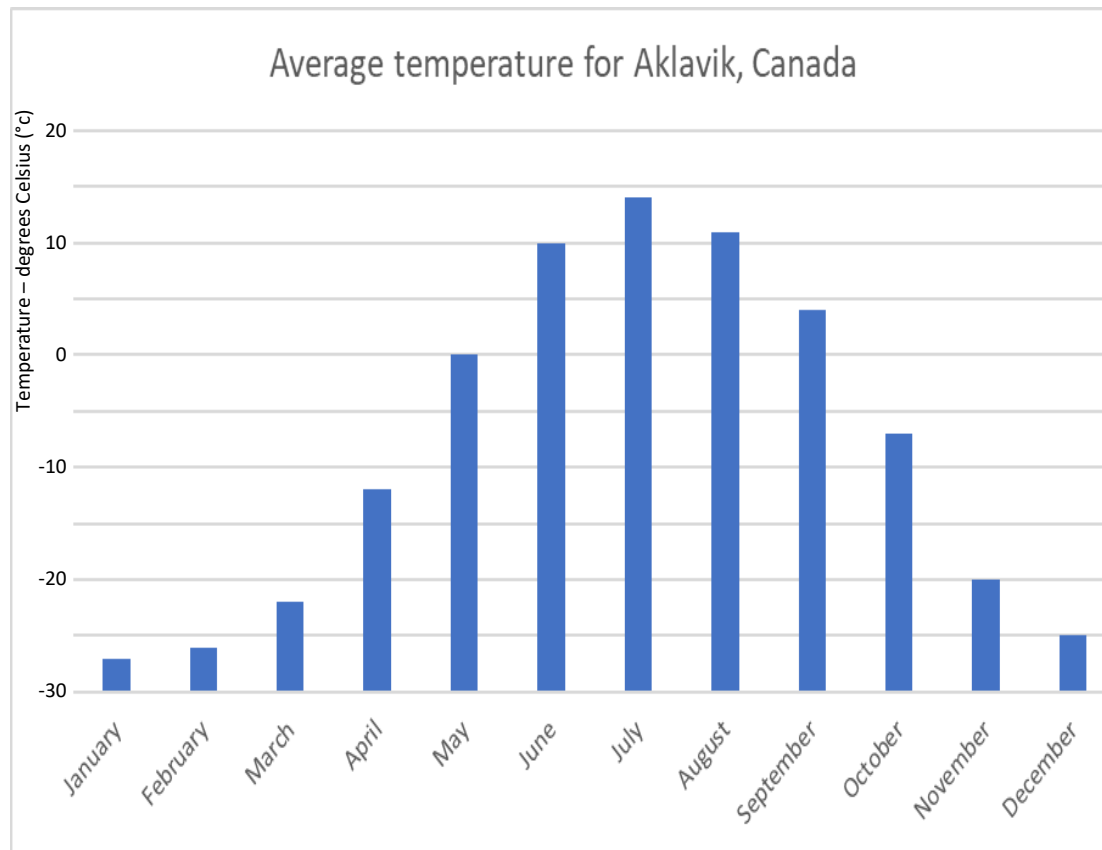
How does the temperature in Aklavik change during the year?
We can use a **bar chart** to **analyse** the temperature changes.



Geography



How does this compare to the temperature in a different biome?
Temperate Deciduous Forest - England



Geography



Stick the graph showing the temperature in Aklavik in your book and write an description of how the temperature changes during the year in the arctic tundra.

Aklavik

temperature

low

arctic tundra

high

winter

freezing

summer

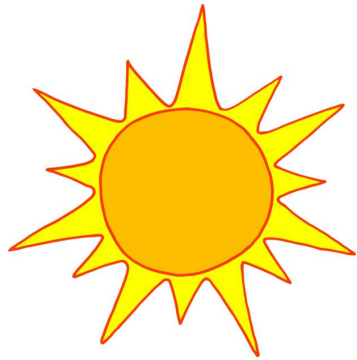
Remember that months of the year are proper nouns so need to start with a capital letter.

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Why is there a lack of vegetation in the polar biome?
vegetation = plants

What do you know about plants and what they need to grow?

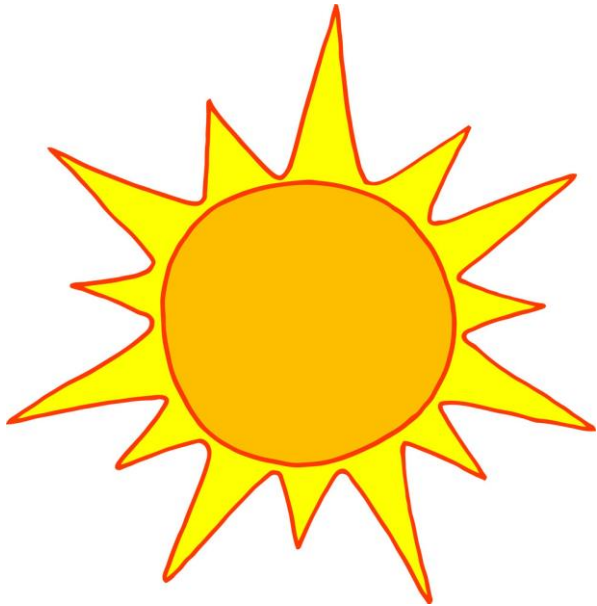


Geography



Why is there a lack of vegetation in the polar biome?

vegetation = plants



- Plants need daylight and sunshine to grow. Plants get their **energy** from the sun.

The summer is very short in the polar biome so the growing season for plants is very short. The days are much shorter so there is less daylight, some days the sun does not rise at all!

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Why is there a lack of vegetation in the polar biome?

vegetation = plants



- Plants need water to grow.
The climate in the polar biome is cold and dry. Like a 'cold desert'.

Geography



Why is there a lack of vegetation in the polar biome?

vegetation = plants

- Many plants need soil to get nutrients and for their roots to grow into for support.

The soil in the arctic tundra is called permafrost. This means under the surface it is permanently frozen.



Geography



Why is there a lack of vegetation in the polar biome?

Write an explanation in your books to answer this question. Start your explanation with-

There is a lack of vegetation in the polar biome because...

You can use this vocabulary to help you.

sunlight

permafrost

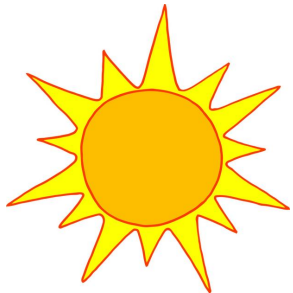
energy

water

soil

growing season

nutrients



precipitation



summer



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