





Steps to Success

Lockdown Learning - DT	
Date	Lesson 3
Subject/s	Geography
Learning Objective 	To compare temperatures using a graph

			
Success Criteria 	I can draw a line graph with equally spaced labels		
	My axis goes up in equal amounts		
	I read points on a line graph and explain what they show		
Support	Independent	Adult Support ()	Group Work
Key vocabulary for the lesson:			
Temperature climate Arctic Antarctic line graph compare			

Arctic Weather

The Arctic is one of the coldest places on Earth. It is easy to imagine the land permanently covered in ice and snow. However, the landscape changes in the summer, when some of the snow and ice melt.

The Arctic is also one of the driest, with very little precipitation (rain or snow). In fact, the world's second largest desert is the Arctic! It is made up of land and sea, so the weather can be different in different areas.

Temperatures can reach as low as -68 °C in some parts of the Arctic during the freezing winter months. However they are much warmer in the summer. Overall, the average temperatures are rising in the Arctic.



This table shows the average daily temperature for the Arctic Village, Alaska.

Arctic Village, Alaska	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average temperature (°C)	-30.7	-27.9	-18.9	-10	3.5	12.5	14.3	9.5	0.2	-11.7	-23.6	-24.7

Antarctic Weather

Many people know that the Antarctic is the coldest place on Earth. But it may come as a surprise that it is also the windiest, and that the world's largest desert can be found here!

Antarctica is actually a continent, larger than the whole of Europe. The continent is the driest on Earth and is classed as a desert because there is very little precipitation (rain or snow) here.



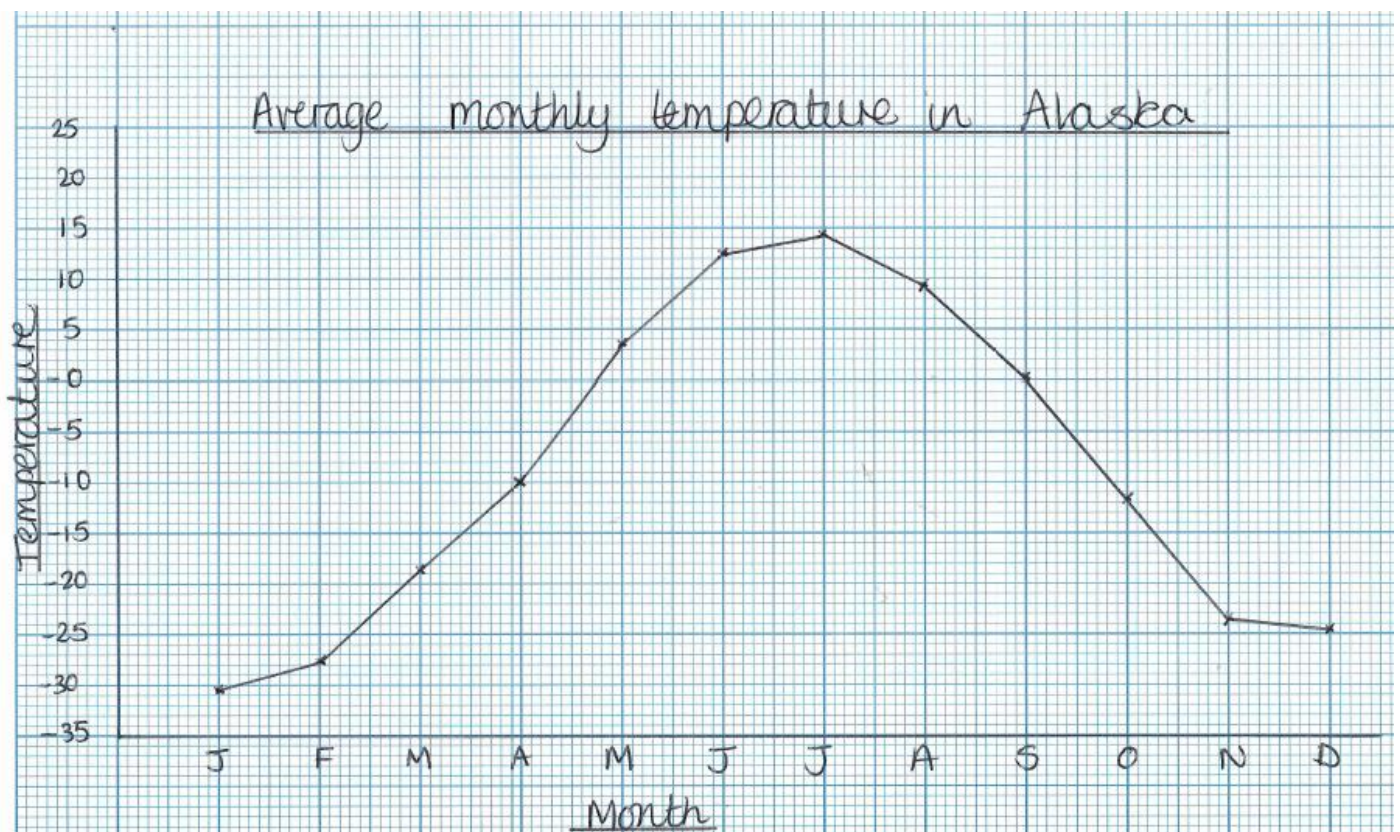
The weather in Antarctica can vary significantly across different areas. The lowest ever recorded temperature in Antarctica was -89.2°C .

This table shows the average daily temperature for the Vostok Station, based in the Antarctic.

Vostok Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average temperature ($^{\circ}\text{C}$)	-32.1	-44.3	-57.9	-64.7	-65.6	-65.2	-66.9	-67.6	-66	-57.1	-43.3	-32.1

The South Pole (Arctic) is colder than the North Pole (Antarctic). This is because ice at the South Pole sits on top of the land mass of Antarctica, whereas that at the North Pole lies over the Arctic Ocean. Water retains heat better than land. Hence, the North Pole is slightly less cold in winter and warmer in summer

Below is a line graph I have drawn based on the weather data in the table about the Arctic.



Your task is to create a line graph showing the temperatures in the Antarctic.

Go to the video link on the website for help with drawing line graphs – scroll down to the bottom of the White Rose Maths page to find this video.

