



Extremes of Temperature: Teachers' Notes

This maths activity has been produced to accompany the science activity 'Project 5 - keeping warm and keeping cool'. You will find this in the 'Sun and Light' section.

We would recommend that you complete the science activity first, or do them in parallel. This is a nice opportunity for maths teachers and science teachers in a secondary school to work together. Integrating maths and science for a primary teacher will help you with your STEM working.

RESOURCES

The activity is set out as a student booklet with an accompanying PowerPoint presentation. The booklet is in three sections:

1. An activity called extremes of temperature. Pupils research on the internet to find information about places with very high and very low temperatures and compare this to the range of temperatures they would normally find. Students will often find information in different units. So, it is important that there is a class discussion about the need to standardise. We choose Centigrade as this is most common for scientific experiments (as water remains liquid in the range 0°C to 100°C. Section 3 shows pupils how to do this. They make a table of their data and produce bar charts to illustrate it. This would work best as small group work, so groups of 3 or 4 produce a table together.
2. A set of questions to answer which provide opportunities to reflect on the data. We expect that this would be done within groups initially. However, the questions require some tricky thinking, so we are sure that teachers will bring the class together to discuss as a whole class and draw conclusions. The groups can then get back together to produce a report of their findings: table, charts and answers.
3. A help sheet to show how to:
 - a. Convert temperature in Fahrenheit to Centigrade using the HP Prime calculator.
 - b. Draw multiple column bar charts to illustrate the data.

