

Year 5 Science

How would you stay warm in the Arctic?



Animals that live in the Arctic have adaptations that keep them warm. For example, the polar bear has a layer of fat under its skin and thick fur for insulation. This slows down heat loss from their bodies. Humans do not have these adaptations, so we have to use clothing, fire and shelters to keep us warm in cold climates.

Can you answer the question ‘How would you stay warm in the Arctic?’

You could think about:

- where is the Arctic?
- what is the climate like there?
- why is it important to keep warm?
- what animals live in the Arctic?
- how do the animals in the Arctic keep warm?
- could you copy their ideas?
- how do you keep warm at home?
- would these methods work in the Arctic?

Does this BBC video give you any ideas?

<https://www.bbc.co.uk/programmes/p00l73wf>

Will the types of clothes you wear keep you warm? How? (This would be an amazing time to show off to us your knowledge of thermal insulators and conductors!)

Will you need shelter? What kind?

What food will you need? Why?

Interesting fact: How does the Bactrian camel find water in the Gobi Desert?



Bonus question

Why do mountaineers climbing Everest always melt (and boil) snow before drinking it?

You can present your answer any way that you want. It could be a PowerPoint, a poster, a short video, a collage or anything else you can think of.

We would love to see your research and ideas; please email it to us at stpetersy6@sthelens.org.uk (no not a typo- it's the email inbox that Mr Badley has access to!)