**Why is the arctic warming faster than anywhere else on Earth?**

As the white ice of the Arctic melts it is replaced by darker water and land. Scientists think the dark areas absorb more heat whilst white areas reflect it. **Test this hypothesis.**

Method:

Work out how to set up your materials, there are some ideas below.

What will you measure?

How often will you make your measurements?

Produce a table to record your results.

You could obtain two identical containers, such as empty coffee cans, jars, or shoe boxes. Make one of them black and one white eg paint the containers or wrap in paper.

Put a thermometer inside each of the containers and record their temperatures. Now move them into the sunlight or place them under bright light.

Record their temperature at regular intervals over a period of time.

Once you have your results display them in a line graph . use one graph with a separate line for the results from the black and the white container.

* Your teacher may be able to show you another way of measuring the absorption of heat by dark and light surfaces using a **Crooke's Radiometer.**

Do your results support the hypothesis?