

Activity for Chapter 14

Activity 14.2

Investigating the effect of evaporation on the rate of cooling

Skills

A03.2 Planning

A03.3 Observing, measuring and recording

A03.4 Interpreting and evaluating observations and data

A03.5 Evaluating methods

Sweating helps to cool the body. You are going to plan and carry out an experiment to test this hypothesis:

Evaporation of water from the surface of a hot object causes it to cool faster.

You can use a technique similar to the one you used in Activity 14.1. You will need to use two or three test tubes all the same size. You will also need to use some water-absorbent material, which you can wrap round one or more of the tubes.

- 1 What are you going to vary in your experiment? How will you do this?
- 2 Make a list of the things that you will keep the same in your experiment.
- 3 What will you measure? How will you measure it, and how often?
- 4 How will you display your results?
- 5 Predict the results you will obtain, if the hypothesis is correct.

Now get your plan checked by your teacher, before you carry it out.