GCSE Physics required practical activity 10: Radiation and absorption

Student sheet

Required practical activity	Apparatus and techniques
Investigate how the amount of infrared radiation absorbed or radiated by a surface depends on the nature of that surface.	AT 1, AT 4

Investigating the amount of infra-red radiation emitted by different surfaces

Learning outcomes
1 **2** **Teachers to add these with particular reference to working scientifically**

Your teacher may complete this investigation as a class demonstration or include it in a 'circus' of experiments.

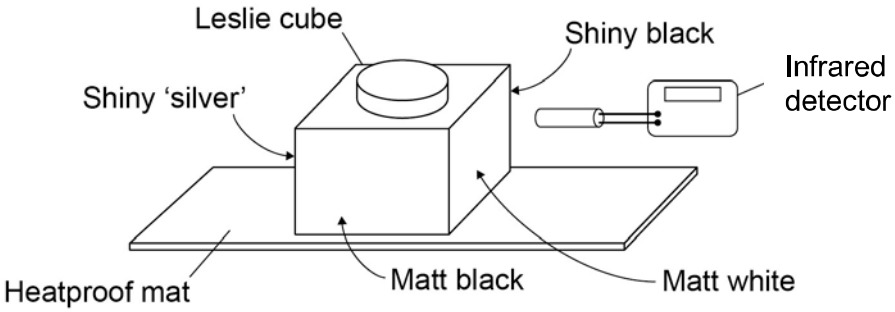
Method

You will use the following:

- Leslie cube kettle
- infra-red detector
- heat proof mat

You should read these instructions carefully before you start work

1. Place the Leslie cube on to a heat proof mat.
2. Fill the cube with very hot water and replace the lid of the cube.



3. Use the detector to measure the amount of infrared radiated from each surface. Make sure that before a reading is taken the detector is the same distance from each surface.
4. Draw a bar chart to show the amount of infrared radiated against the type of surface.