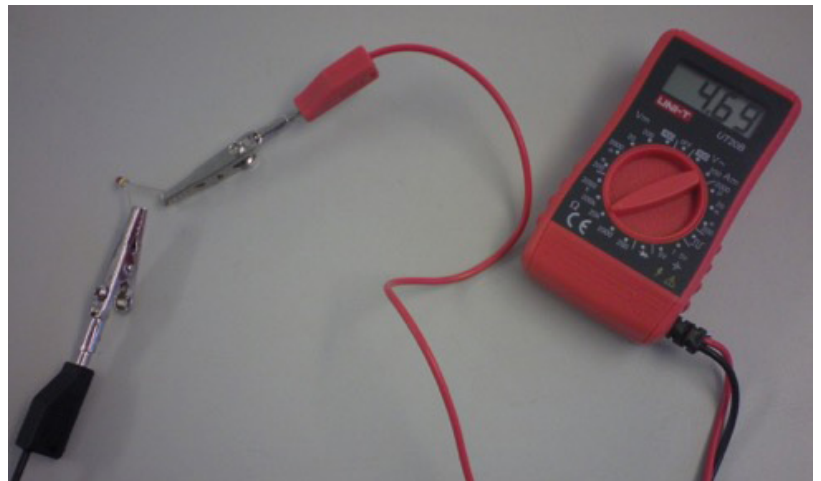




INVESTIGATION 2

Thermistor instructions

A thermistor



- Make sure that the multimeter is on the correct setting so that it is measuring resistance.
 - Connect the two legs of a thermistor to the multimeter using crocodile clips.
 - Thermistors do not have polarity, so it does not matter which way round you connect the thermistor.
1. Measure and record the thermistor's resistance, when it is held in air, in the table below.
 2. Place the thermistor in cold water and record the resistance.
 3. Place the thermistor in warm water and record the resistance.
 4. Place the thermistor in hot water and record the resistance.

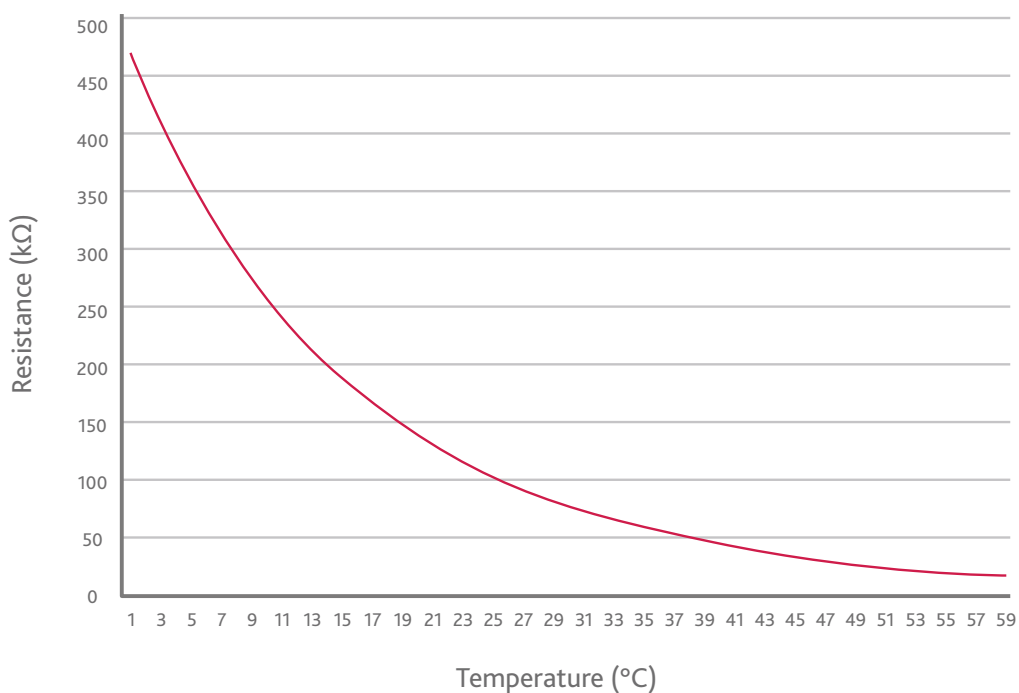
Thermistor	Resistance (ohms)
1. In air	
2. In cold water	
3. In warm water	
4. In hot water	



Q. What happens to the resistance of the thermistor as the temperature increases?

Q. Can you spot the relationship between the temperature and the resistance?

■ Look at the graph below which shows resistance plotted against temperature.



Q. How could this data be used in the program for a computer control system so that it triggers at a specific temperature?

