

... thermistor characteristics

Recording the data

Heat the beaker to almost boiling and then allow it to cool. Record for 20 minutes.

You may need to do a test run to establish a suitable voltage for the power supply.

Using the results

What does the graph tell you about the change in temperature?

What does the graph tell you about the change in current?

What does the graph tell you about the change in potential difference?

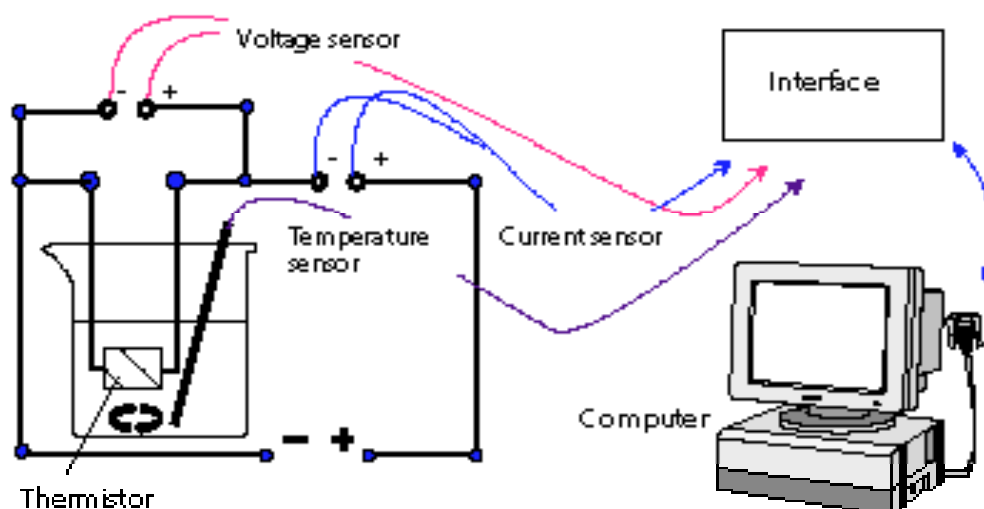
How does the temperature affect the current and potential difference?

Use the software to calculate the resistance (V / I). Try to plot resistance against temperature.

Use the software to calculate \ln (Temperature)

Use the software to calculate $1/\text{Current}$. Plot this against $\ln(\text{temperature})$.

Save your data on disk. Print the graphs.



Section

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Experiments

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