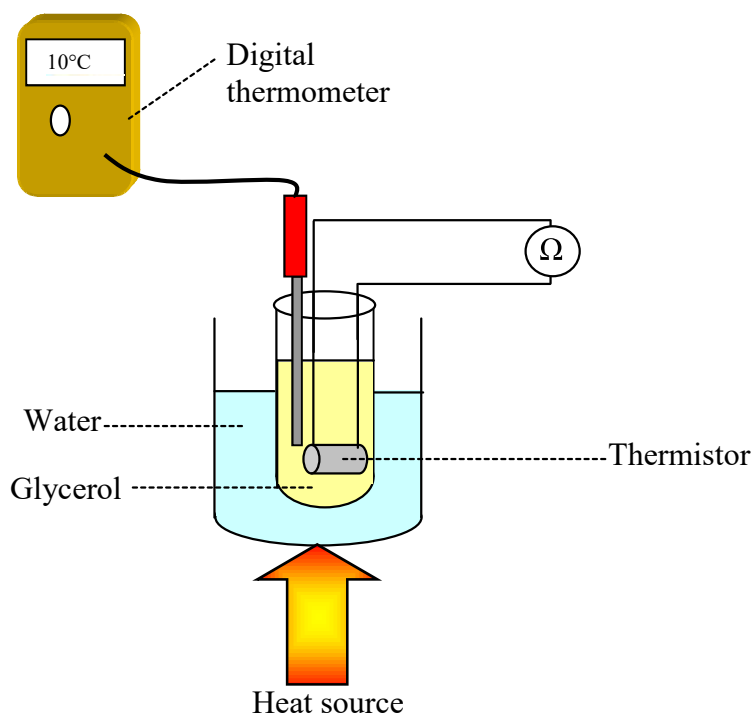


# TO INVESTIGATE THE VARIATION OF THE RESISTANCE OF A THERMISTOR WITH TEMPERATURE

## Apparatus

Thermistor, boiling tube containing glycerol or liquid paraffin, beaker, heat source, thermometer, ohmmeter.



## Procedure

1. Set up the apparatus as shown.
2. Connect the ohmmeter to the thermistor.
3. Use the thermometer to note the temperature of the glycerol and thermistor.
4. Record the resistance of the thermistor using the ohmmeter.
5. Heat the beaker.
6. For each 10 °C rise in temperature, record the resistance and the temperature using the ohmmeter and the thermometer.
7. Plot a graph of resistance against temperature and join the points in a smooth, continuous curve.

## Results

$R / \Omega$										
$\theta / ^\circ\text{C}$										