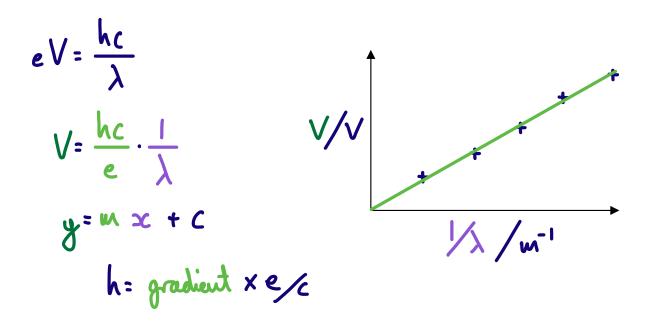
## Planck's Constant - Results



**Method 1**: A coloured LED was connected into a simple series circuit with a DC power supply and a variable resistor. The variable resistor was adjusted until the current through the LED was just above zero. The potential difference across the LED was measured with a voltmeter, giving a value for the threshold voltage of the LED.

This procedure was repeated for a number of different coloured LEDs, with the manufacturer's stated value for wavelength quoted in the table below.

The following data was recorded:

LED Colour	LED Wavelength / nm	Threshold Voltage / V	1/λ / x10 <sup>-6</sup> m <sup>-1</sup>
Red	634	1.97	
Orange	602	2.05	
Yellan	590	2.12	
Green	532	3-38	
Blue	464	2.60	
Violet	405	3.05	

