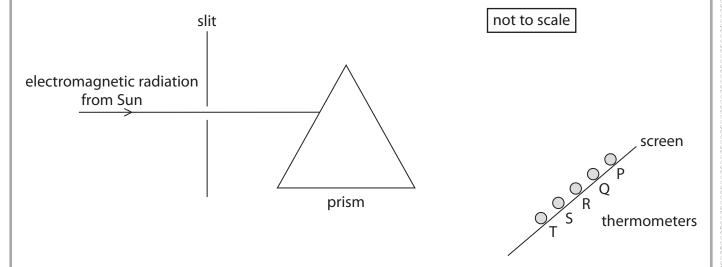
2 The diagram shows the apparatus used to demonstrate the existence of electromagnetic radiation just beyond the visible spectrum.

Electromagnetic radiation from the Sun passes through a slit and a prism.

The electromagnetic radiation refracts through the prism onto the screen.

Five thermometers are placed in front of the screen.



(a) Complete the table to show the missing parts of the electromagnetic spectrum.

(3)

Thermometer	Part of electromagnetic spectrum
Р	
Q	red light
R	
S	violet light
Т	

(b) Suggest why the lower part of each thermometer should be painted black.	(2)
(c) The equipment is left for a short period of time.	
The thermometers now show higher temperatures than before.	
State the part of the electromagnetic spectrum in this demonstration that would give the largest temperature increase.	
	(1)
(Total for Question 2 = 6 m	arks)