

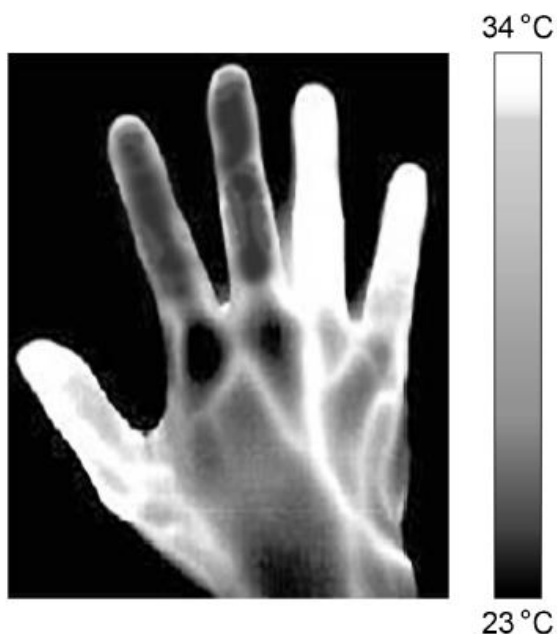
Black body radiations – GCSE CS Physics

1. No.5(5.1_5.2)

0 5

Different parts of the electromagnetic spectrum are used in medical imaging.

Figure 8 shows an image of a person's hand taken with an infrared camera.

Figure 8

0 5 . 1

Explain why the infrared camera is able to show that parts of the hand are at different temperatures.

[2 marks]

0 5 . 2

Infrared has a range of wavelengths from 700 nm to 1 mm.

Which part of the electromagnetic spectrum would have waves with a wavelength of 6.5×10^{-7} m?

[1 mark]Tick (✓) **one** box.

Infrared

☐

Microwaves

☐

Radio waves

☐

Visible light

☐