

- 5 (a) By reference to the photoelectric effect, state what is meant by the *work function* of a surface.

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[1]

- (b) Light of wavelength 540 nm is incident on a metal surface having a work function of 2.5 eV.

Determine whether electrons are emitted from the surface.

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[4]

- (c) Explain whether your conclusion in (b) is affected by the intensity of light incident on the surface.

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[2]