

# G402: Electrons, Waves and Photons

Question			Required Answer	Mark	Marking Guidance
21					
	21	1	$2.4 \times 10^{-19} \text{ J}$ or $1.5 \text{ eV}$ $\pm 0.1 \times 10^{-19} \text{ J}$	2.1	allow $1.5 \times 10^{-19} \text{ J}$ or $1 \text{ eV}$
		2	$2.4 \times 10^{-19} \text{ J}$ or $1.5 \text{ eV}$ or $2.4 \times 10^{-19} \text{ J}$ or $1.5 \text{ eV}$ $\pm 0.1 \times 10^{-19} \text{ J}$ and 2	2.2	allow $1.5 \times 10^{-19} \text{ J}$ or $1 \text{ eV}$
		3	$2.4 \times 10^{-19} \text{ J}$ or $1.5 \text{ eV}$ $\pm 0.1 \times 10^{-19} \text{ J}$	2.3	allow $1.5 \times 10^{-19} \text{ J}$ or $1 \text{ eV}$
		4	$2.4 \times 10^{-19} \text{ J}$ or $1.5 \text{ eV}$ $\pm 0.1 \times 10^{-19} \text{ J}$	2.4	allow $1.5 \times 10^{-19} \text{ J}$ or $1 \text{ eV}$
	21	5	As enough photons are incident the electrons <u>escape</u> <u>and get heated</u> over time enough they have been heated enough to escape (allow them to be heated by the sun) because they have enough kinetic energy to escape the surface	3.1	no marks for heating alone allow three marks
		6	$2.4 \times 10^{-19} \text{ J}$ or $1.5 \text{ eV}$ $\pm 0.1 \times 10^{-19} \text{ J}$ or $1.5 \text{ eV}$ or $2.4 \times 10^{-19} \text{ J}$ $\pm 0.1 \times 10^{-19} \text{ J}$	3.2	allow $1.5 \times 10^{-19} \text{ J}$ or $1 \text{ eV}$
		7	$2.4 \times 10^{-19} \text{ J}$ or $1.5 \text{ eV}$ $\pm 0.1 \times 10^{-19} \text{ J}$	3.3	allow $1.5 \times 10^{-19} \text{ J}$ or $1 \text{ eV}$
		8	$2.4 \times 10^{-19} \text{ J}$ or $1.5 \text{ eV}$ $\pm 0.1 \times 10^{-19} \text{ J}$	3.4	allow $1.5 \times 10^{-19} \text{ J}$ or $1 \text{ eV}$
		9	$2.4 \times 10^{-19} \text{ J}$ or $1.5 \text{ eV}$ $\pm 0.1 \times 10^{-19} \text{ J}$	3.5	allow $1.5 \times 10^{-19} \text{ J}$ or $1 \text{ eV}$
		10	$2.4 \times 10^{-19} \text{ J}$ or $1.5 \text{ eV}$ $\pm 0.1 \times 10^{-19} \text{ J}$	3.6	allow $1.5 \times 10^{-19} \text{ J}$ or $1 \text{ eV}$

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**Marco Cascella**



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