

THE PHOTOELECTRIC EFFECT

Essential info

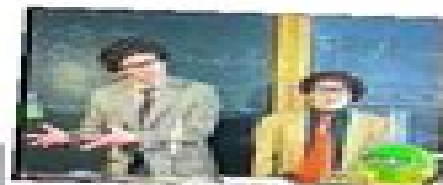
$$hf = \phi + E_{k, \max}$$

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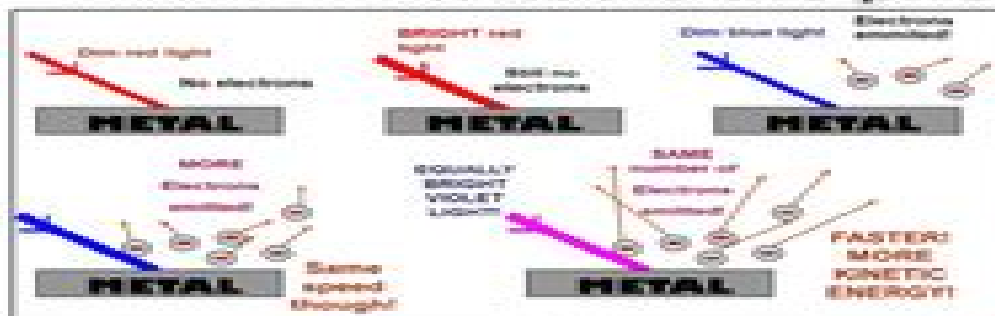
$$E = hf$$

$$1 \text{ eV} = 1.6 \times 10^{-19} \text{ J}$$

$$h = 6.63 \times 10^{-34} \text{ Js}$$



TASK 1: What is the photoelectric effect?



Different colours of light are shone on to a metal surface. The **number** of electrons emitted from the surface and their **maximum velocity** is observed.

1. Explain the observations to the left using the **photon model of light**. Use the terms "**threshold frequency**" and "**work function**" in your answers.
2. Why can't the **wave model of light** explain these observations?

TASK 2: Photoelectric Questions!

1. The **threshold frequency** of caesium metal is $4.7 \times 10^{14} \text{ Hz}$. This is in the red (visible light) section of the electromagnetic spectrum.
 - a) Explain what the above information tells us about caesium metal with respect to the **photoelectric effect**.
 - b) Calculate the **work function** of caesium metal i) in joules ii) in electron volts.
 - c) Explain if electrons will be emitted when the following types of light are shone onto the caesium metal.
 - i) infrared light is shone onto caesium.
 - ii) ultraviolet light is shone on to caesium.
 - iii) very high intensity infrared light.
 - iv) low intensity green light.
 - v) visible light of frequency $7 \times 10^{14} \text{ Hz}$.
 - vi) high intensity light of wavelength $7.4 \times 10^{-7} \text{ m}$.
2. Copper metal has a **work function** of 4.84 eV.
 - a) Calculate the **threshold frequency** of copper?
 - b) Will red light cause electrons to be emitted from this metal? (Think!)
 - c) What type of light must be shone on to this metal in order to cause electrons to be emitted?

Photoelectric Effect Gizmo Worksheet

Didier Musso



Photoelectric Effect Gizmo Worksheet:

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Photoelectric Effect Gizmo Worksheet**

In a world inundated with displays and the cacophony of immediate conversation, the profound power and psychological resonance of verbal art often diminish in to obscurity, eclipsed by the continuous barrage of noise and distractions. However, located within the lyrical pages of **Photoelectric Effect Gizmo Worksheet**, a fascinating perform of literary brilliance that impulses with raw feelings, lies an memorable trip waiting to be embarked upon. Written by way of a virtuoso wordsmith, this exciting opus courses visitors on a psychological odyssey, lightly revealing the latent potential and profound affect stuck within the elaborate web of language. Within the heart-wrenching expanse of the evocative examination, we can embark upon an introspective exploration of the book is key themes, dissect its captivating writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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