

Activity A: Wavelength and Intensity	<u>Get the Gizmo ready:</u> <ul style="list-style-type: none"> • Check that the Voltage is 0.0 volts. • Check that Potassium is selected. 	
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Question: How does the **wavelength** and **intensity** of light affect its ability to free electrons from the surface of a material?

1. **Observe:** Click **Flash the light** with a variety of **Wavelength** values. What do you notice?

I notice that the higher the wavelength the less electrons move off the metal plate, but the lower the frequency the more electrons move of the metal plate.

2. **Observe:** Click **Flash the light** with a variety of **Intensity** values. What do you notice?

The higher the intensity the more electrons move of the metal plate.

3. **Form hypothesis:** Answer the following questions based on what you have observed so far.

- A. Which factor determines how many photons will strike the metal? **The Intensity**

Explain: Intensities control how strong the energy is being released.

- B. Which factor determines how much energy each photon has? **The wavelength**

Explain: Each wavelength has a different energy level so the lower the wavelength the higher the energy

4. **Investigate:** Set the **Intensity** to 10%. Use the **Gizmo** to determine the largest wavelength that will dislodge an electron from the surface of the metal. What is this value? **500 nm**

5. **Test:** Click **Flash the light** with an **Intensity** of 10% and again with an **Intensity** of 100%. What happened? **All the electrons moved off of the metal plate.**

6. **Explore:** Set the **Wavelength** to 400 nm. Experiment with different intensities of light.

- A. Does the light intensity affect how many electrons are emitted? **Yes**

Explain: The higher the intensity the amount of electrons move off the metal plate.

- B. Does the light intensity affect the energy (speed) of the emitted electrons? **Yes**

Explain: I think it increases the strength of the wavelength as it makes the electrons move faster.

7. **Conclude:** Choose the best answer to each item.

(**Wavelength** Intensity) of a photon determines whether or not electrons are emitted off of a piece of metal. Wavelength is inversely proportional to velocity/frequency/amplitude. Therefore, in order to send electrons from a piece of metal, photons must have a (long

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LL Leslie



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