

<b>Activity A:</b> <b>Wavelength and Intensity</b>	<u>Get the Gizmo ready:</u> <ul style="list-style-type: none"> <li>Check that the <b>Voltage</b> is 0.0 volts.</li> <li>Check that <b>Potassium</b> is selected.</li> </ul>	
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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? **550 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 question.

(**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**

# Gizmo Student Exploration Photoelectric Effect Answers

**Yan Bai**



## **Gizmo Student Exploration Photoelectric Effect Answers:**

## Embracing the Tune of Term: An Psychological Symphony within **Gizmo Student Exploration Photoelectric Effect Answers**

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