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Date: 1/19/24

Student Exploration: Bohr Model of Hydrogen

Vocabulary: absorption spectrum, Bohr model, electron volt, emission spectrum, energy level, ionization energy, laser, orbital, photon

[Note to teachers and students: This Gizmo was designed as a follow-up to the Bohr Model: Introduction Gizmo. We recommend doing that activity before trying this one.]

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

- What happens to an electron when it absorbs a tiny packet of light called a **photon**?
the electron absorbs the energy from it, causing a higher energy level
- What happens to an electron when it emits a photon?
the electrons lose energy, causing a lower energy level

Gizmo Warm-up

When white light is passed through hydrogen gas and separated by a prism, some wavelengths of light are absorbed by the hydrogen atoms in the gas. This causes black bars to appear in the **absorption spectrum** of hydrogen. An **emission spectrum** is created when hydrogen gas emits light.

The **Bohr model** of the atom was inspired by the spectrum produced by hydrogen gas. The link between light and atomic structure is illustrated by the *Bohr Model of Hydrogen* Gizmo. The Gizmo shows a **laser** pointed at a container of hydrogen gas. After passing through the gas, light from the laser goes through a prism and is detected on a screen.

- With the **Laser energy** set to 7.0 eV, click **Play** (). Observe the blue electron on the ORBITALS pane. Do 7.0-eV photons have any effect on the electron? No, it doesn't, the electron stays at lvl 1.
- Click **Pause** (). Set the **Laser energy** to 12.1 eV and click **Play**. What happens to the electron now? the electron shakes up and down and moves up by 2 orbital (level 3)
- Under **Go to energy level**, select **1**. Notice that a photon is emitted by the electron. What is the energy of the emitted photon? (12.1 eV)

Bohr Model Of Hydrogen Gizmo Answer Sheet

Ricardo Simeoni, Griffith University



Bohr Model Of Hydrogen Gizmo Answer Sheet:

Bohr's Model of Atomic Hydrogen Extended to Include Electron Rotational Kinetic Energy Ricardo Simeoni, Griffith University, 2003

Whispering the Techniques of Language: An Psychological Journey through **Bohr Model Of Hydrogen Gizmo Answer Sheet**

In a digitally-driven world wherever screens reign supreme and instant conversation drowns out the subtleties of language, the profound strategies and mental nuances hidden within words usually go unheard. However, located within the pages of **Bohr Model Of Hydrogen Gizmo Answer Sheet** a fascinating literary treasure pulsating with organic feelings, lies a fantastic quest waiting to be undertaken. Published by an experienced wordsmith, that charming opus encourages visitors on an introspective journey, softly unraveling the veiled truths and profound influence resonating within the material of each and every word. Within the emotional depths with this touching evaluation, we will embark upon a sincere exploration of the book is core subjects, dissect their charming publishing fashion, and yield to the powerful resonance it evokes strong within the recesses of readers hearts.

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