**🎯 Activity 5: 🔡 Word Hunt – “Atomic Vocabulary Search”**

**🎙️ Activity Introduction**   
"Get ready to boost your atomic vocabulary! In this challenge, you will search for six important science terms hidden in the word grid. These words are clues that help us understand how elements behave and how they are classified. Look carefully—some may be hiding diagonally or backwards!"

**👨‍💻 Developer Guide Instructions**

* **Type:** Interactive Word Search.
* **Display:** 12x12 word grid with interactive click-to-highlight feature.
* **Interactions:**
  + Clicking or dragging across a correct word highlights it.
  + Trigger sound and glow feedback on correct selections.
* **Audio:** Tap/click sound effects on selections.
* **Grid Word Bank (Visible to Learner):**
  + Metal
  + Nonmetal
  + Metalloid
  + Electron
  + Valence
  + Shiny
* **Grid Rules:**
  + Random filler letters should not form distractor scientific words.
  + Reveal definitions as bonus pop-ups after each correct word is found.

**📋 Learner Instructions (On-Screen)**

1. Look at the word bank to see the six target science terms.
2. Search the 12x12 letter grid carefully — words can be horizontal, vertical, diagonal, forwards, or backwards.
3. Click and drag to highlight each word you find.
4. Read the pop-up definition after finding a word.

**💡 Hint Panel (On-Screen)**

**Tips for Success:**

* Start by looking for the first or last letter of a target word.
* Scan the grid in rows and columns for familiar patterns.
* Remember, words can be hidden backwards or diagonally.
* Review the definitions to help recall the spelling and meaning of each term.

**🧪 Activity Content – Target Words and Pop-up Definitions**

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| **Target Word** | **Pop-up Definition** |
| **Metal** | Elements that are shiny, good conductors of heat and electricity, and often malleable. |
| **Nonmetal** | Elements that are poor conductors and often brittle in solid form. |
| **Metalloid** | Elements that have both metallic and non-metallic properties. |
| **Electron** | A tiny negatively charged particle found in energy levels around the nucleus. |
| **Valence** | The number of electrons in the outermost shell of an atom. |
| **Shiny** | A physical property of metals that reflects light, making them glossy or lustrous. |

**🎙️ Activity Conclusion**   
"Fantastic vocabulary hunt! These terms help you speak the language of atoms. Knowing them will make it easier to classify elements and predict how they behave in chemical reactions."

**✅ Key Takeaways:**

* Classification helps **understand chemical behaviour**.
* It allows **prediction of reactions and uses** of elements.
* Learners should **model elements** (e.g., Oxygen atom with beads).
* Practice **classifying real-world elements**.
* Reflect on how classification affects **technology, industry, and health**.