**🎯 Activity 2: 🔍 Hotspot Click – “Explore Metal Properties**

**🎙️ Activity Introduction 🎙️ *(Mic Icon)***

“Get ready to investigate the hidden powers of metals! This block of metal holds clues about its physical properties. Click on each part—the shiny surface, the wire, the heat zone, and more—to uncover what makes metals so useful. Your mission: explore and learn one property at a time!”

**👨‍💻 Developer Guide Instructions**

* **Type**: Hotspot Exploration / Clickable Diagram
* **Visual Element**: Static image of a metal block showing:
  + ✨ Polished surface
  + 🧊 Solid edge
  + ⚡ Attached metal wire
  + 🔥 A flame or heat source touching the block
* **Hotspot Labels & Coordinates**:
  + **Surface (Top)** – Label: “Shiny Surface”
  + **Side (Corner)** – Label: “Solid Block”
  + **Wire Attached** – Label: “Wire”
  + **Area with Flame Touch** – Label: “Heat Source”
* **Interaction Mechanics**:
  + On click → Zoom in + show animated text bubble with explanation
  + Narration pop-up + voice-over for each hotspot
  + Each hotspot is clickable once until **Restart** is selected

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

1. Look closely at the metal block image.
2. Click on each labelled hotspot to discover a property of metals.
3. Read and listen to the explanation for each property.
4. Click all hotspots to complete the activity.

**💡 Hint (On-Screen)**

Metals are usually shiny, solid at room temperature, and conduct heat and electricity very well. Look for clues on the image that match these properties.

**🧩 Activity Content – Hotspots and Explanations**

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| **Hotspot** | **Popup Explanation** |
| ✨ Shiny Surface | “Metals are lustrous—they reflect light and have a shiny appearance. This shine is due to the way metal atoms allow light to bounce off their surface, making them attractive for jewellery, coins, and decorative objects.” |
| 🧊 Solid Block | “Most metals are solids at room temperature, except mercury which is liquid. They are usually dense, hard, and compact, which makes them strong and long-lasting for building structures and making tools.” |
| ⚡ Wire | “Metals allow electric current to pass easily through them because of free-moving electrons in their structure. This property, called electrical conductivity, makes them ideal for wiring, electronics, and power transmission.” |
| 🔥 Heat Source | “Metals are excellent heat conductors because energy passes quickly through their particles. This is why they are used in cookware, radiators, and other applications where quick and even heating is needed.” |

**🎙️ Activity Conclusion**

“Excellent exploration! You have now uncovered the key properties of metals. Their shine, solid state, and ability to conduct heat and electricity make them essential in homes, machines, and tools. These properties explain why metals are chosen for so many everyday and industrial uses.”