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| **What will we be learning?**  Metals and Non-Metals  Steel - Free construction and tools icons | **Why this? Why now?**  Previous Learning  Particle Model, Separating Mixtures  Future Learning  KS3 - Acids and Alkalis, Earth Structure  GCSE – Atomic Structure and Bonding  Enquiry Processes  Analyse Patterns, Draw conclusions, Present data, Justify opinions, Collect data, Present data, Plan variables | **Key Words:**  Metal  Non-Metal  Sonorous  Ductile  Conductor  Insulator  Malleable  Periodic Table  Oxidation  Displacement Reaction  Reactivity Series  Chemical Reaction  Property |
| **What will we learn?**   * The properties of metals of non-metals * Linking the properties of a metal or a non-metal to its uses * Given the names of an acid and a metal, work out the name of the salt produced when they react * Deduce a rule from data about which reactions will occur or not, based on the reactivity series   **Misconceptions in this topic**   * Oxygen gas has no mass – when a metal reacts with oxygen from the air, a metal oxide is formed and the mass of the oxygen is added to the metal * All metals are magnetic – only Iron, Nickel and Cobalt are magnetic | |
| **What opportunities are there for wider study?**  Careers  Metallurgist Jeweller Plumber Structural Engineer Aerospace Engineer  STE(A)M  https://highcliffe.sharepoint.com/sites/LearnSTEM | |
| **How will I be assessed?**  End of topic assessment | |