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| **What will we be learning?**Metals and Non-MetalsSteel - Free construction and tools icons | **Why this? Why now?**Previous Learning Particle Model, Separating MixturesFuture Learning KS3 - Acids and Alkalis, Earth StructureGCSE – Atomic Structure and BondingEnquiry ProcessesAnalyse Patterns, Draw conclusions, Present data, Justify opinions, Collect data, Present data, Plan variables | **Key Words:**MetalNon-MetalSonorousDuctileConductorInsulatorMalleablePeriodic TableOxidationDisplacement ReactionReactivity SeriesChemical ReactionProperty |
| **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
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| **What opportunities are there for wider study?**CareersMetallurgist Jeweller Plumber Structural Engineer Aerospace Engineer STE(A)M https://highcliffe.sharepoint.com/sites/LearnSTEM |
| **How will I be assessed?**End of topic assessment  |