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| **What will we be learning?****Earth’s Resources**  | **Why this? Why now?** Previous Learning Metals & Non-metals, Separating mixtures, Chemical EnergyFuture Learning GCSE – Using Resources, Ecology, Chemical ChangesA Level – Physical Chemistry & Transition ElementsEnquiry ProcessesUse observations to draw conclusions. Evaluate extraction methods using data. | **Key Words:**ResourceMineralOreRecyclingExtractionElectrolysisDisplacementReactivityAlternativeIndustrialPropertiesExothermicReductionOxidation |
| **What will we learn?****We will learn to write word and balanced symbol equations for the extraction of metals****We will be able to describe the different methods used to extract ores and justify why different methods are used based on a metal’s reactivity.****We will also learn how by changing behaviours and by using alternative resources we will be able to limit the consumption of natural resources.****Misconceptions in this topic****It is not acceptable to write ‘carbon oxide’. You must write ’carbon dioxide’.****Remember that ‘reduction’ is the loss of oxygen and ‘oxidation’ is the gain of oxygen. Use these words correctly.****Ensure that element symbols start with a capital letter.** |
| **What opportunities are there for wider study?****Careers**: Metallurgist, Metals and Mining Analyst, Recycling Operations Manager, Piping EngineerSTE(A)M https://highcliffe.sharepoint.com/sites/LearnSTEM |
| **How will I be assessed?****End of Topic Test** |