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| **What will we be learning?**Elements   | **Why this? Why now?**Previous Learning Particle Model, Acids and Alkalis, Metals and Non-MetalsFuture Learning ElementsGCSE – Atomic Structure and the Periodic Table, Bonding and Structure, Chemical ChangesEnquiry ProcessesAnalyse Patterns, Draw Conclusions, Discuss Limitations, Estimate Risk, Review Theories | **Key Words:**Atom Chemical FormulaCompound Element MixtureMoleculePolymer |
| **What will we learn?*** Definitions for element, compound, mixture, atom and molecule
* Name simple compounds
* Represent ECMAM using particle diagrams
* How to differentiate between ECMAM
* Name compounds using chemical formula
* Use observation from chemical reactions to identify unknown substances
* Describe and explain properties of polymers and other composite materials

**Misconceptions in this topic*** The particle model – specifically the model for a liquid
* Misrepresentations of atoms/molecules in diagrams
* Conservation of particles in a chemical reaction
* Naming compounds – especially unfamiliar compounds
* The difference between chemical and physical changes
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| **What opportunities are there for wider study?**CareersParticle physicist Space engineer Fragrance analyst Technical designerSTE(A)M https://highcliffe.sharepoint.com/sites/LearnSTEM |
| **How will I be assessed?**End of topic assessment  |