|  |  |  |
| --- | --- | --- |
| **What will we be learning?**  Elements | **Why this? Why now?**  Previous Learning  Particle Model, Acids and Alkalis, Metals and Non-Metals  Future Learning  Elements  GCSE – Atomic Structure and the Periodic Table, Bonding and Structure, Chemical Changes  Enquiry Processes  Analyse Patterns, Draw Conclusions, Discuss Limitations, Estimate Risk, Review Theories | **Key Words:**  Atom  Chemical Formula  Compound  Element  Mixture  Molecule  Polymer |
| **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 | |
| **What opportunities are there for wider study?**  Careers  Particle physicist Space engineer Fragrance analyst Technical designer  STE(A)M  https://highcliffe.sharepoint.com/sites/LearnSTEM | |
| **How will I be assessed?**  End of topic assessment | |