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| **What will we be learning?**  Particle Model  C:\Users\schapman\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\D79D901E.tmp | **Why this? Why now?**  Previous Learning  Primary School Science  Future Learning  GCSE Chemistry – Atomic structure, Bonding and structure, Rate and Extent of Chemical Change  GCSE Physics – Particle model of matter, Energy  Enquiry Processes  Analyse patterns, Discuss limitations, Draw conclusions, Present data, Communicate ideas, Estimate risk, Review theories. | **Key Words:**  Boil  Condense  Density  Diffusion  Evaporate  Freeze  Gas  Gas Pressure  Liquid  Melt  Particle  Particle Model  Solid  Sublime |
| **What will we learn?**   * Structure and Properties of solids, liquids and gases * State changes – names, energy and particle arrangement * How and why gases exert pressure * Classifying substances based on properties * Making predictions about unfamiliar physical changes   **Misconceptions in this topic**   * The mass of gases * ‘Thick’ liquids and density * Mass and volume being the same thing * Expansion happens because of the particle spacing not the particle size | |
| **What opportunities are there for wider study?**  Careers  Formulations Chemist Nanotechnologist Environmental Scientist  STE(A)M  https://highcliffe.sharepoint.com/sites/LearnSTEM | |
| **How will I be assessed?**  End of topic assessment | |