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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 ScienceFuture Learning GCSE Chemistry – Atomic structure, Bonding and structure, Rate and Extent of Chemical ChangeGCSE Physics – Particle model of matter, EnergyEnquiry ProcessesAnalyse patterns, Discuss limitations, Draw conclusions, Present data, Communicate ideas, Estimate risk, Review theories.  | **Key Words:**BoilCondenseDensityDiffusionEvaporateFreezeGasGas PressureLiquidMeltParticle Particle ModelSolid 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
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| **What opportunities are there for wider study?**CareersFormulations Chemist Nanotechnologist Environmental Scientist STE(A)M https://highcliffe.sharepoint.com/sites/LearnSTEM |
| **How will I be assessed?**End of topic assessment  |