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| **What will we be learning?**Separating Mixtures  C:\Users\schapman\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\2747FFC3.tmp | **Why this? Why now?**Previous Learning Particle Model Future Learning GCSE Chemistry – Atomic structure, Chemical AnalysisEnquiry ProcessesCollect data, Devise questions, Test hypothesis, Estimate Risk  | **Key Words:**SolventSoluteSolubleInsolubleSolutionPure Substance MixtureFiltration DistillationEvaporationChromatography  |
| **What will we learn?*** The difference between pure substances and mixtures
* How to separate mixtures based on physical properties
* Explaining, using the particle model, how substances dissolve
* How to produce, draw and analyse c solubility curve
* How chromatography works to identify unknown substances

**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?**CareersAnalytical Chemist Forensic Scientist Make-up Production STE(A)M https://highcliffe.sharepoint.com/sites/LearnSTEM |
| **How will I be assessed?**End of topic assessment  |