**Chemistry Revision: Mixtures**

Mastery Matrix Points

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| Use key terms (soluble, insoluble, solute, solvent and solution) correctly to describe a substance dissolving |
| Explain how to separate given mixtures (filtration, crystallisation, simple distillation, fractional distillation, chromatography) |
| Explain the difference in difficulty of separating compounds compared to mixtures |

Key Knowledge

Mixture –

Soluble –

Insoluble –

Solute –

Solvent –

Filtration

Used to separate:

Equipment:

Crystallisation

Used to separate:

Equipment:

Simple distillation

Used to separate:

Equipment:

Chromatography

Used to separate:

Equipment:

Fractional distillation

Used to separate:

Equipment:

Understanding and Explaining

1. Mixtures be separated by physical processes. Explain what a physical process is and give four examples.
2. Explain why compounds cannot be separated by physical processes.
3. Describe the process of filtration using sandy water as an example.
4. Describe the process of crystallisation using copper sulfate solution as an example.
5. Describe the process of paper chromatography and how you could use it to see if a food dye is pure.
6. Describe the process of distillation using an ethanol and water mixture as an example.
7. Explain the difference between simple distillation and fractional distillation.