

Key Stage 3 Precise Learning Points



Unit Number	C1
Unit Title	Particles
Chapter	Solutions

Key Scientific Points

1. Pure substances are made from one type of substance.
2. Mixtures are substances made from more than one type of particle, but these are not bonded together
3. When the strength of attractions between particles are strong enough to stop them being able to move away from each other we say they are bonded
4. A solute is a substance dissolved in a solvent
5. A solvent is a substance that dissolves a solute
6. Solutions are the mixtures formed by dissolving solutes in solvents.
7. When a solute dissolves in a solvent the particles of a solute become dispersed throughout the solvent.
8. Dissolving solids, liquids and gases requires the attractions between solute particles to be broken.
9. Solute particles are attracted to solvent particles and to each other
10. Concentration is a measure of how many solute particles are dissolved in a given volume of solvent
11. Diffusion happens until the concentration within a solution becomes uniform.
12. Saturated solutions allow no more solute to dissolve
13. Crystallization occurs when there is insufficient solvent to pull solid particles apart from one another