



Assessment grid			
Subject: Science		Year: 8	Topic/module: Pure and Impure Substances
KS4 target direction	4	6	8(9)
Advanced	Enrichment/extension – reaching, or part of, next pathway → Features of work may include:	Enrichment/extension – reaching, or part of, next pathway → Features of work may include:	Enrichment/extension Features of work may include:
Secure <i>Students must achieve competence in all statements before being judged 'Secure'</i>	Secure The student can: <ul style="list-style-type: none">• State that different substances in mixtures have their own melting points.• Identify a solvent, solute, and solution in a given scenario.• Describe how temperature affects solubility• State some situations in which filtering is used• State some mixtures that can be separated using evaporation and distillation.• Describe what a chromatogram looks like	Secure The student can: <ul style="list-style-type: none">• Explain how to identify pure substances.• Use the particle model to explain dissolving.• Explain what a saturated solution is• Explain the meaning of solubility• Explain how filtration works• Explain how distillation works• Explain how chromatography separates mixtures• Analyse chromatograms to identify substances in mixtures.	Secure The student can: <ul style="list-style-type: none">• Comment on a substance's purity by interpreting temperature change data• Draw particle diagrams to represent solutions and pure substances• Explain what a solubility graph shows• explain whether or not filtering can be Used in given situations• Discuss whether evaporation or distillation would be suitable for separating a mixture• Explain how chromatography can be used in different scenarios
Developing	Mostly secure – one or more gaps For example:	Mostly secure – one or more gaps For example:	Mostly secure – one or more gaps For example:
Beginning	Significant gaps	Significant gaps	Significant gaps