Section A: Key Vocabulary	
Tier 3 vocabulary	Definition
Relative atomic	The mean mass of an atom of an element
mass (Ar)	compared to 1/12 the mass of a ¹² C atom.
Relative formula	The mean mass of a unit of a substance
mass (Mr)	compared to $1/12$ the mass of a 12 C atom.
Empirical formula	Formula showing the simplest whole-
(n)	number ratio of the atoms of each element
	in a compound.
Pure substance	Consisting of just one type of element or
(n)	compound.
Filtrate (n)	Liquid that passes through the filter during
	filtration.
Residue (n)	Insoluble material left in the filter paper
	during filtration.
Saturated	A solution containing the maximum mass of
solution (n)	solute possible at a given temperature.
Liebig condenser	Apparatus that can cool and condense a
(n)	substance.
Fraction (n)	In Chemistry, a substance separated during
	fractional distillation.
Fractionating	A piece of apparatus used to improve the
column (n)	separation of solvents during fractional
	distillation.
Distillate (n)	A liquid product condensed from its vapour
	during distillation.
Chromatogram	The pattern produced when separating a
(n)	mixture using chromatography,
Stationary phase	A substance in the solid or liquid state that
()	does not move during chromatography.
Mobile phase ()	A substance in the liquid or gas state that
	moves during chromatography.
Tier 2 vocabulary	Definition
Symbol (n)	A shorthand way to represent an element
	on the periodic table .
Separate (v)	Cause to move or be apart.
Volatile (adj)	(of a substance) easily evaporated at nor-
	mal temperatures.

Subject: Chemistry Year 10 Autumn Term—C2.1 Purity and Separating Mixtures



