Science Ye		ear 7	Autumn	Chemistry 2: Separating techniques
1.	Key Words			1. Command Words
1	Mixture	An insoluble substance in a liquivery easy to separate.	uid. It is opaque. They are	1 Name       Recall one or more pieces of information.         2 State       Write down what the term in the question means.
2	Soluble	A substance that will dissolve		<b>3</b> Give Recall one or more pieces of information.
3	Insoluble	A substance that will not dissol	lve	<b>4</b> Describe Give an account in words of someone or something including all of the relevant characteristics, qualities or events.
4	Solute	The solid substance that dissol	ves into a liquid	5 Explain Make an idea, situation or problem clear by describing it in detail revealing relevant data or facts
5	Solvent	The liquid that a substance diss	solves into	6 How Discuss the creation of something giving specific references to support.
6	Solution	Formed when a solute dissolves transparent. They are harder to	s in a solvent. It is o separate than mixtures.	2. Dissolving 1. Particles in a solid are held in a fixed
7	Dissolving	When a solid breaks up into tin interacts with the liquid particle	ny pieces (particles) and es.	arrangement. 3. solution 3. solution
8	Conserved	Remains constant/unchanged in	n total	break up and mix with
9	Solubility	How much solute can be dissolv liquid	ved in a known volume of	the liquid particles . The particles interact with solvent solvent because solution the filter paper.
10	Saturated	When a solution can no longer	dissolve any more solute.	one another.
11	Evaporation	The process of turning from a li	quid into a gas (vapour)	SAME- CONSERVED3. All the particles in a solution are very small- they can all fit through the noies in filterpaper and that is why filtering can't be used to separate a solution.
12	Condensation	The process of turning from a g	as (vapour) into a liquid	3. Evaporation
13	Filtration	Used to separate a insoluble su	bstance from a liquid	Separate 2 solids or a solution
14	Chromatography	Method to separate a mixture of differences in their solubility. The Chromatogram.	of liquids using he result is a	1. Add rock salt to water and stir to dissolve the salt. The grit is insoluble.     1     2.     filter funnel and paper     3.
15	Distillation	Method to separate a solution of difference in boiling point.	or two liquids using	2. Filter. The grit (residue) gets trapped in the filter paper. The trapped in the filter paper. The trapped in the filter paper. The trapped in the filter paper. The
16	Pure	A material that only contains or	ne substance	through.
4. Ch Sepa dyes	hromatography arate a mixture of liquids e.g s/colours in pens paperclips wire hanger		wire hanger	3. Heat the filtrate to evaporate the water. The salt will be left behind.
1	A sample is added pencil line on pape	to a 4		5. Distillation Separate a solution or two liquids Thermometer
2	The bottom of the suspended in solve	paper is colours	U rectangle	1         Solution of ink in flask and heated         3         Water out
3	Solvent absorbs/so	bakes up	paper	2 Water in the ink solution evaporates
4	Each dye makes it'	s own	where the	3 Water vapour enters the condenser Flask Water Water
5	Very soluble colou	rs travel	soaked 3	4 Water vapour condenses into a liquid
	to top of paper Less soluble colour	rs stay	\ up to	5 Pure water collects in the beaker