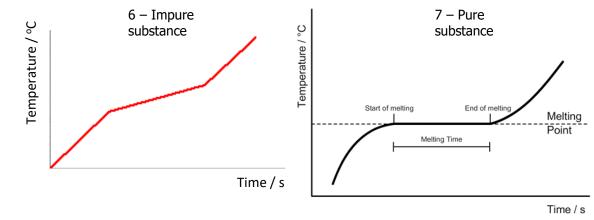
Chemistry 8: Chemical Analysis

Section 1: Key terms	
	A pure substance is a single element or compound , not mixed with any other substance.
2 Formulation	A mixture that has been designed as a useful product. Formulations are made by mixing the components in carefully measured quantities . Formulations include fuels , cleaning agents , paints , medicines , alloys , fertilisers and foods .
3 Melting point	The temperature at which a substance turns from a solid to a liquid.

Section 2: Im	npure and	Pure Gra	aphs

5 Pure substances do melt at specific temperatures (a horizontal line is produced)	4	Impure substances do not melt at specific temperatures.
	5	Pure substances do melt at specific temperatures (a horizontal line is produced).



Sec	Section 4: Testing for Gases			
	Gas	Procedure	Positive Result	
17	IHVARAAAN	Hold a lit splint at the end of a test tube producing gas.	Hydrogen burns with a pop noise.	
18			The splint relights if oxygen is present.	
19		5 5	Carbon dioxide causes the limewater to turn milky .	
20	Chlorine	Place damp litmus paper in the gas.	The litmus is bleached white if chlorine is present.	

Section 3: Chroma	atography	
	A method used to separate mixtures into their different chemicals.	
9 Solvent	The chemical that dissolves the sample in chromatography.	
10 Solvent front	The maximum distance the solvent moves up the paper.	
11 Stationary phase	ationary phase The medium (e.g. paper) through which the mobile phase passes in chromatography .	
12 Mobile phase The solvent (e.g. water) that carries the sample (e.g. ink) in chromatography .		
13 R _f value	A value (always less than 1) that shows how far the substance has moved compared to the solvent. Equation: $R_f = \frac{distance moved by substance}{distance moved by solvent}$	

