

Science: Chemical Analysis

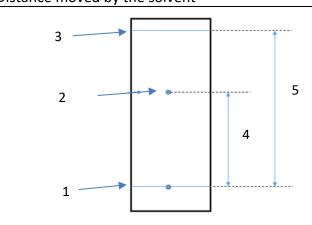
1. Key Words				
Pure substance	A substance that contains a single element or compound, not mixed with any other substance			
Formulation	Formulation A mixture that has been designed for a specific purpose			
Melting point	The temperature at which a substance changes from a solid to a liquid			
Boiling point	The temperature at which a substance changes from a liquid to a gas			

2. Chromatography

This is a separation technique used to separate mixtures in dyes inks, paint and DNA

The R_f value is a measure of how far up the chromatography paper the solute moves compared to the solvent.

R _f equations		<u>Distance moved by the solute</u>			
		Distance moved by the solvent			
1	Baseline	Pencil line that the solute is placed on			
2	Solute	The final position of the solute			
3	Solvent front	The final position of the solvent			
4	Distance mov	Distance moved by the solute			
5	Distance moved by the solvent				



3. Testing for Gases				
Gas	Test	Positive Result		
Hydrogen	Place a lit splint into the gas	Squeaky pop noise		
Oxygen	Place a glowing splint into the gas	Splint will relight		
Carbon dioxide	Bubble the gas through limewater	Limewater will change from colourless to cloudy		
Chlorine	Place damp blue litmus paper into the gas	Litmus paper will change colour to pink and then bleach to white		

