Grade 10 MYP Science LIS - Separation Techniques - Review

Understand the differences between elements, compounds and mixtures

Describe techniques for the separation of mixtures, including simple distillation, fractional distillation, filtration and paper chromatography

Recall that crude oil is a mixture of hydrocarbons

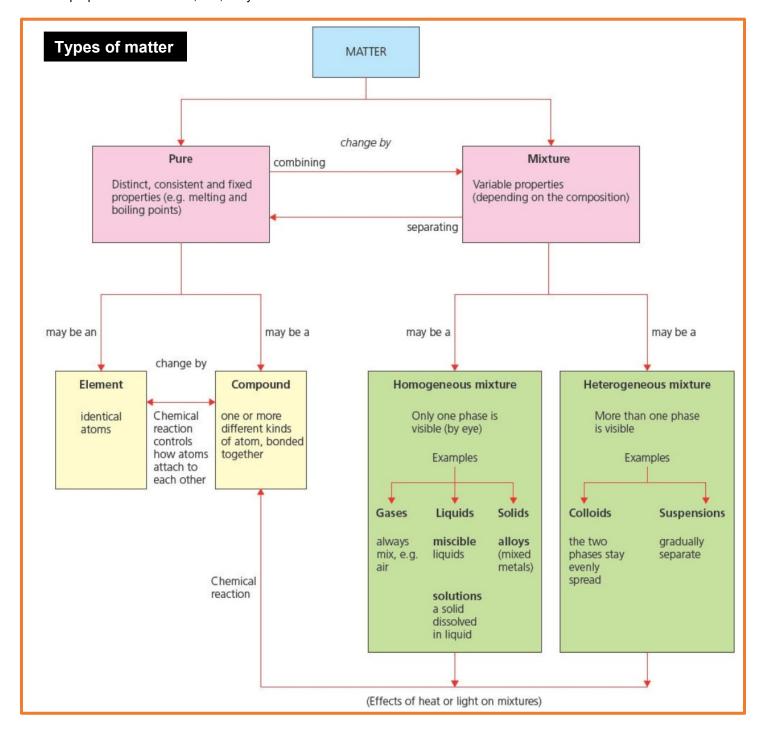
Describe how the industrial process of fractional distillation separates crude oil into fractions

Recall the names and uses of the main fractions obtained from crude oil: refinery gases, gasoline (petrol), kerosene, diesel, fuel oil and bitumen

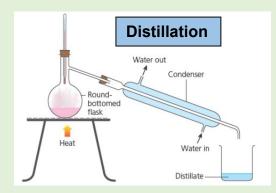
Describe the trend in boiling point and viscosity of the main fractions

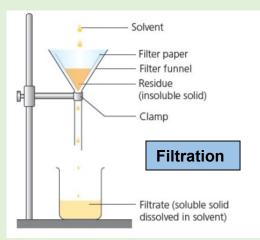
Describe solutions, oils, alloy and emulsions

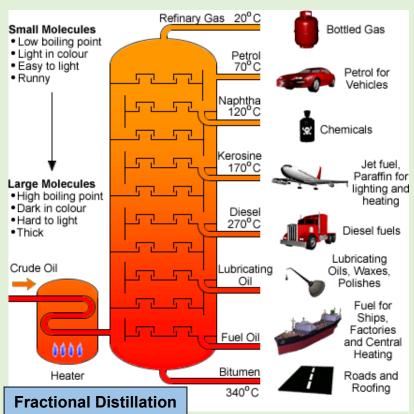
Give the properties of solutions, oils, alloys and emulsions

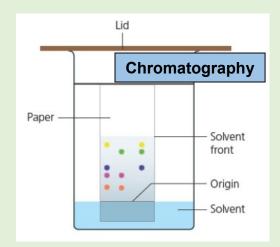


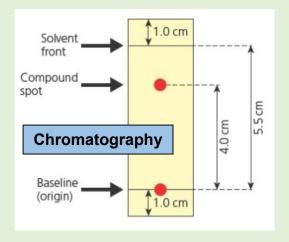
Separation methods





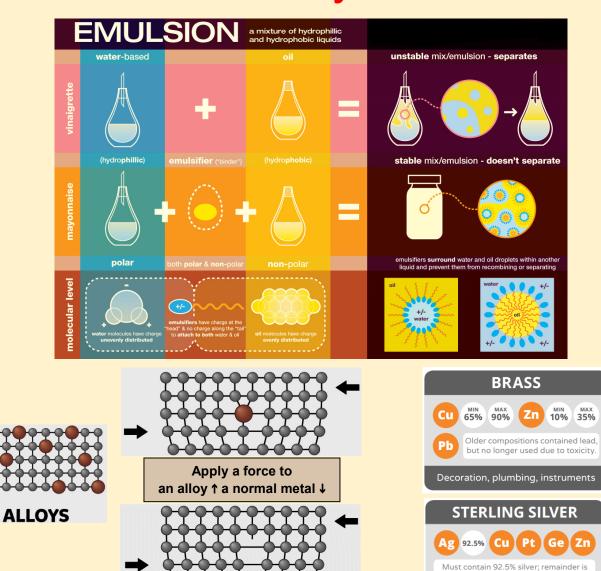


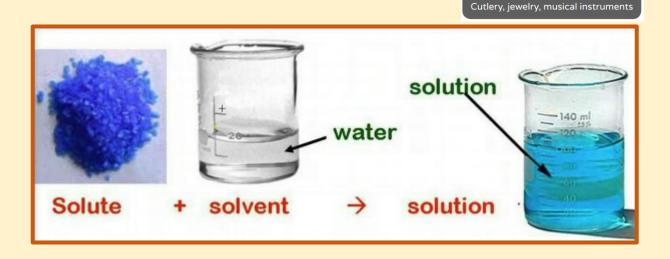




 $R_{\rm f} = \frac{\text{distance moved by the compound}}{\text{distance moved by the solvent}}$

Solutions, Alloys, Emulsions





other metals, usually copper.