

IGCSE Chemistry (9-1) Specification 1(b)

(b) Elements, compounds and mixtures

Students should:

- 1.8** understand how to classify a substance as an element, compound or mixture
- 1.9** understand that a pure substance has a fixed melting and boiling point, but that a mixture may melt or boil over a range of temperatures
- 1.10** describe these experimental techniques for the separation of mixtures:
- simple distillation
 - fractional distillation
 - filtration
 - crystallisation
 - paper chromatography
- 1.11** understand how a chromatogram provides information about the composition of a mixture
- 1.12** understand how to use the calculation of R_f values to identify the components of a mixture
- 1.13 practical:** investigate paper chromatography using inks/food colourings