**Elements, Compounds and Mixtures**

**Definitions**

Element – Contains only 1 type of atom

Compound – 2 or more elements chemically combined

Mixture – 2 or more substances mixed together that can often be easily separated

**Pure or impure**

Elements and compounds are pure substances. They will melt and boil at specific temperatures. A mixture will melt and boil over a range of temperatures.

**Separating mixtures**

1 – Simple distillation

2 – Fractional distillation

3 – Filtration

4 – Crystallisation

5 – Chromatography

**Chromatography**

**Rf Values**

We can identify substances in a mixture using Rf values. Rf values show how far a substance travels in a chromatogram

4.7

6.2

 A B X