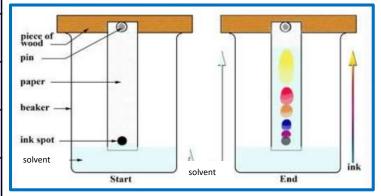
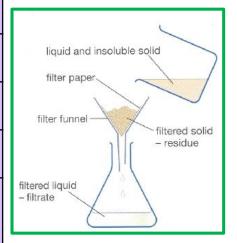
Key word	Definition
Mixtures	Made up of substances that are not chemically joined together
Pure	A substance is pure if it has no other substances mixed with it.
Impure	A substance is impure if it has different substances mixed with it.
Solute	The solid or gas that dissolves in a liquid.
Solvent	The liquid in which a solid or gas dissolves.
Solution	A mixture of a liquid with a solid or a gas.
Dissolve	The mixing of a substance with a liquid to make a solution.
Soluble	A substance that can dissolve in a certain solvent
Insoluble	A substance that cannot dissolve in a certain solvent.
Filtration	A way of separating pieces of solid that are mixed with a liquid or solution by pouring through filter paper.
Chromatography	A technique to separate mixtures of liquids that are soluble in the same solvent.
Distillation	A technique that uses evaporation ad condensation to obtain a solvent form a solution.

Chemistry: Materials (solutions)

Chromatography



Filtration

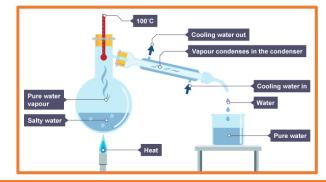


- An insoluble solid is separated from a solution.
- The solution is the heated to evaporate off the solvent leaving the soluble solid behind.

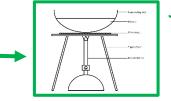
As the solvent travels up the paper, the different coloured substances separate.

- Substances that are the same travel the same height.
- **Pure** substance appears as **one spot**.
- Impure (mixture)
 separates out in to
 multiple spots on the
 same vertical line.

Distillation



- The solution is heated and the solvent evaporates and the solid is left behind.
- The solvent vapour is then condensed and collected as a pure liquid.



Crystallisation

