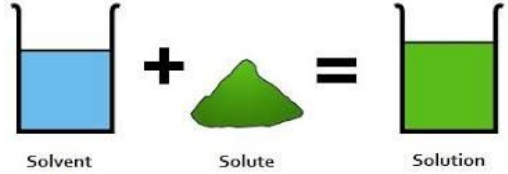
Draw a particle diagram of a

pure substance

mixture

Explain what is happening in the diagram below.

Draw particles to show your understanding on the image below



Explain what the word insoluble means:

Explain what a saturated solution is:

What factors affect solubility?

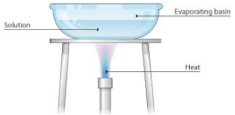
-

-

-

What does the image on the right show?

What happens to the water particles during evaporation?



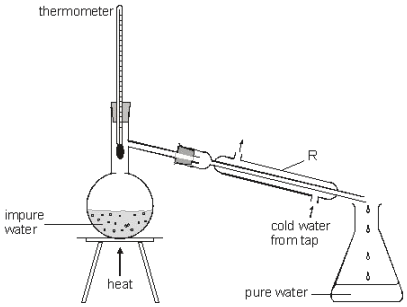
7.6 Pure & Impure Substances

Define the key words

Solute -

Solvent -

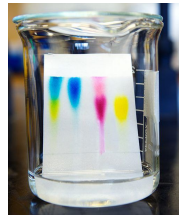
Solution -



What is the name of the process being used below?

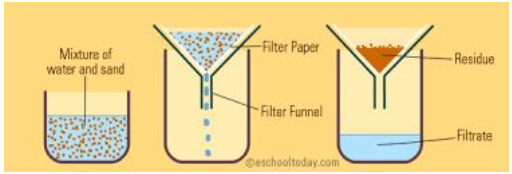
What mixture can be separated using this process?

Describe what is happening in the diagram.

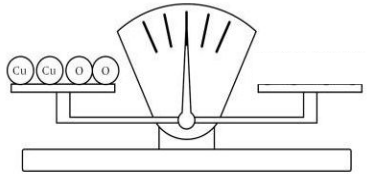


What is the name of the above process?

What is happening to the particles?



Draw particles to show the Conservation of mass when copper reacts with oxygen

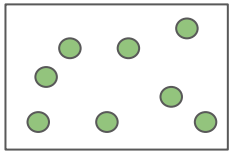


What is the diagram above showing?

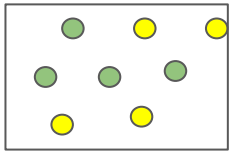
What is chromatography used to separate?

How can Chromatography be used to solve crimes?

Draw a particle diagram of a pure substance

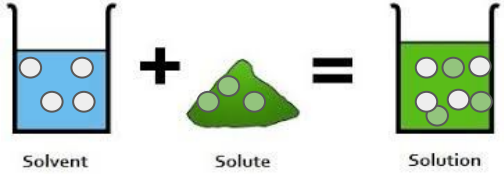


mixture



Explain what is happening in the diagram below.
A solution is being made from mixing a solute and a solvent together

Draw particles to show your understanding on the image below



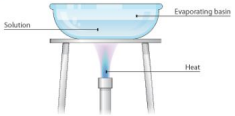
Explain what the word insoluble means:
Insoluble is when a solute does not dissolve in a solvent

Explain what a saturated solution is:
Too much solute has been added to the solvent so some solute cannot dissolve, it is saturated

What factors affect solubility?

- Temperature
- Solvent
- Solute

What does the image on the right show?
Evaporation



What happens to the water particles during evaporation?
They gain enough energy to change from being a liquid to a gas

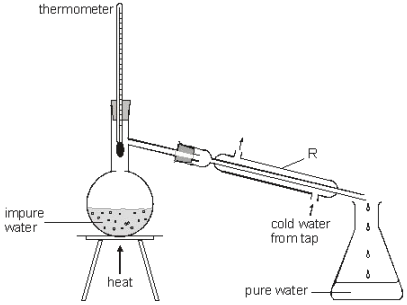
7.6 Pure & Impure Substances

Define the key words:

Solute - a substance that dissolves

Solvent - the substance that the solute dissolves in

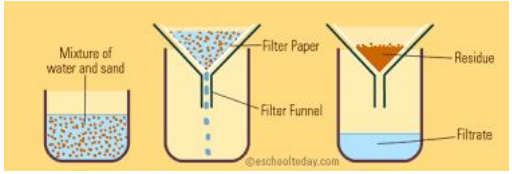
Solution - the mixture of a solute and solution



What is the name of the process being used below?
Filtration

What mixture can be separated using this process?
An insoluble solute and a solvent

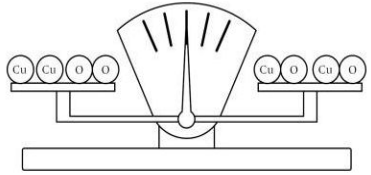
Describe what is happening in the diagram.
The insoluble solute particles collect in the filter paper as it cannot pass through the paper.. The solvent particles can pass through the filter paper so collect in the beaker, it is now called a filtrate

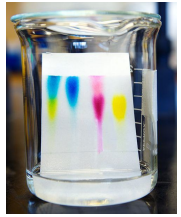


What is the name of the above process?
Distillation

What is happening to the particles?
The liquid particles are heated and evaporate to become gas particles. The gas particles rise up and enter the condenser where they are cooled and condense forming a liquid again

Draw particles to show the Conservation of mass when copper reacts with oxygen





What is the diagram above showing?
chromatography.

What is chromatography used to separate?
A mixture of dissolved substances

How can Chromatography be used to solve crimes?
An unknown substance can be identified by comparing the chromatogram to a known substance