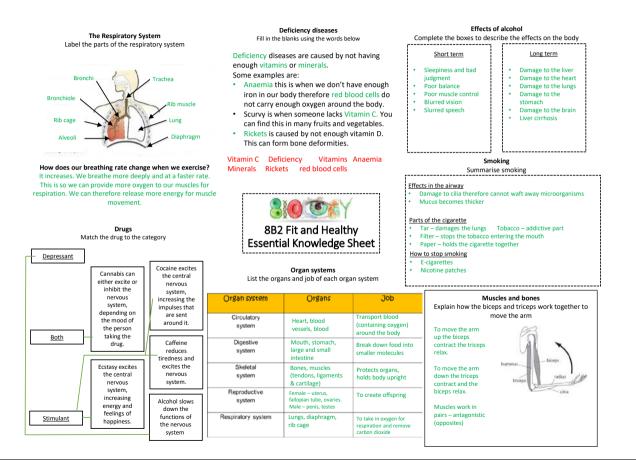
### SCIENCE

## BIOLOGY



# SCIENCE

## CHEMISTRY

What type of separation technique is below?

### Filtration

Label the diagram below with the key terms: Filter Funnel, Filtrate, Residue, Conical Flask, Filter Paper

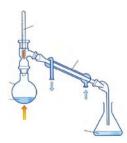


What type of separation technique is below?

### Distillation

Describe what happens to the water during the separation technique.

### The water is evaporated and then condensed



What type of separation technique is the diagram to the right?

### Chromatography

How can you tell that A and B are pure? There is only 1 spot

How many colours make up C? Are any of the colours A or B? 2 colours make up C and none of those spots are A or B.

Describe how you would carry out this separation technique.

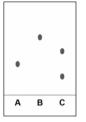
Using a pencil draw a line on the paper. Add small spots of colour on to the pencil line. Place the paper in water in a beaker. Allow the water to reach the top of the paper and the colours will have risen up the paper.



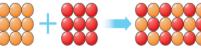
8C2—Compounds and Mixtures

Essential Knowledge Sheet

How would you separate the following mixtures? Sand and Water: Filtration Salt from salt water: Crystallisation/Evaporation Different coloured inks: Chromatography Water from salt water: Distillation Iron from a mixture: Using a magnet of iron and sulfur



Define the following key terms. Atom– a small particle that makes up everything Element– made from 1 type of atom Compound– made from 2 or more types of atoms joined together in a fixed proportion Mixture– 2 or more substances not joined together Soluble– dissolves in a solvent (e.g. water) Insoluble– does not dissolve in a solvent



Iror

Iron Sulfide

How can you tell that iron and sulfur are elements from the diagram?

Sulfu

#### They are made from 1 type of atom

How can you tell that iron sulfide is a compound from the diagram?

2 different types of atoms are joined together in a fixed proportion

## SCIENCE

PHYSICS

