

PHYSICAL SEPARATION TECHNIQUES

1. Show the separation **TECHNIQUE** you would use to separate the following, as well as the **PROPERTY** of separation by dragging the answers below into the relevant positions:

Techniques:

decanting distillation filtration sifting hand sorting
chromatography evaporation magnetic separation

Properties:

density boiling point particle size phase (solid/liquid)
magnetism visual differences solute/solution solubility

MIXTURE	SEPARATION TECHNIQUE	PROPERTY USED FOR SEPARATION
iron and sulphur		
sugar dissolved in water		
oil and paraffin		
alcohol in water		
mixture of dyes		
solid impurities in water		
pebbles in fine building sand		
mixture of different buttons		

2. Fill in the separation technique that is used to separate the mixture in each of the pictures below.

Choose from the following words – make sure you type it **EXACTLY** as shown so that the worksheet marks your answer correctly:

magnetism

filtration

evaporation

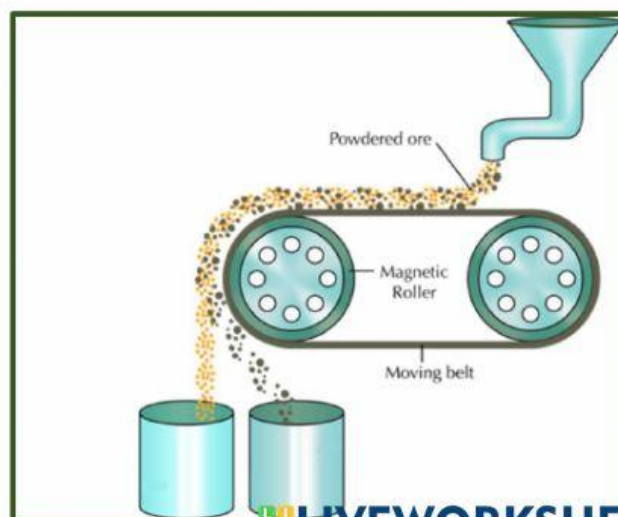
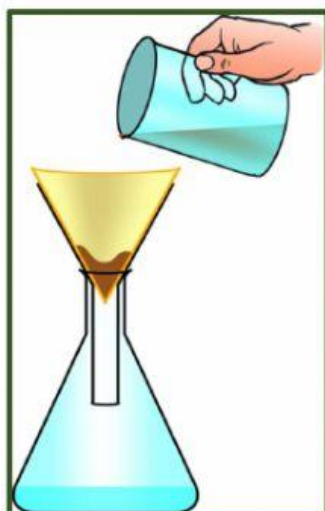
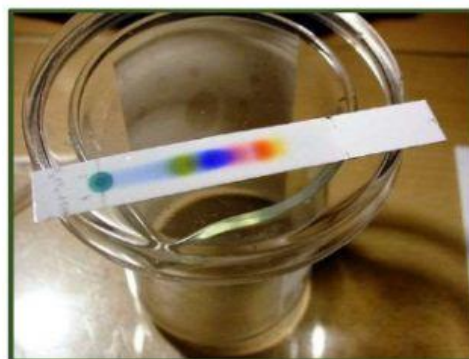
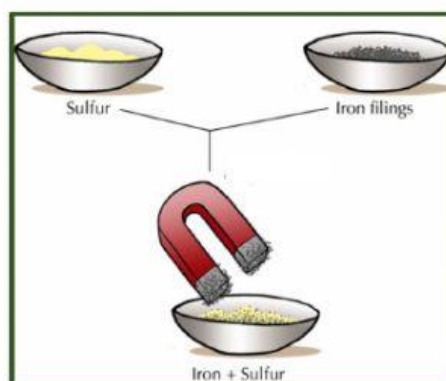
distillation

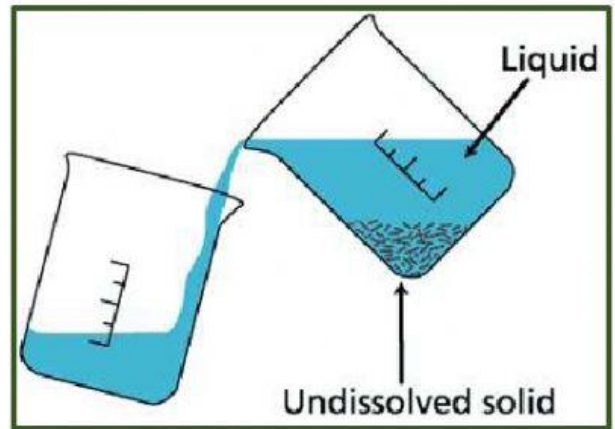
sifting

decantation

hand sorting

chromatography

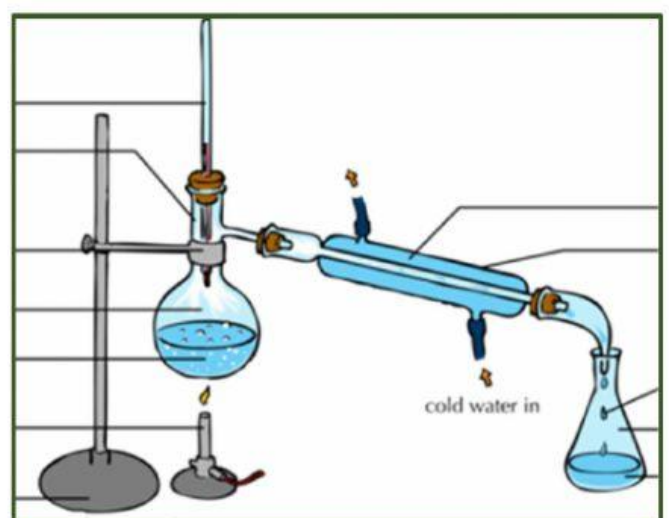
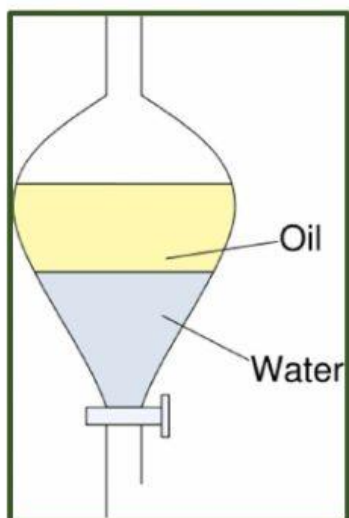
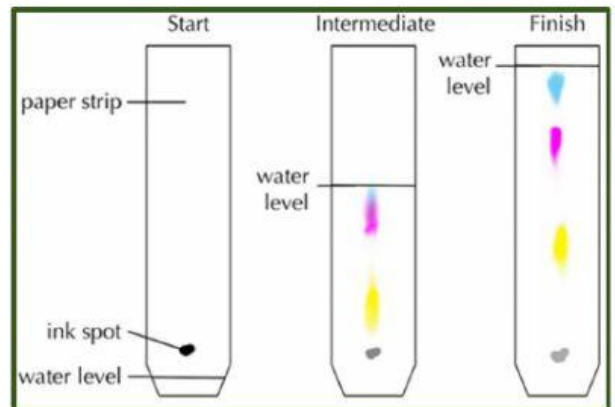




<https://qknowbooks.gitbooks.io/class-5-science-mixtures/>

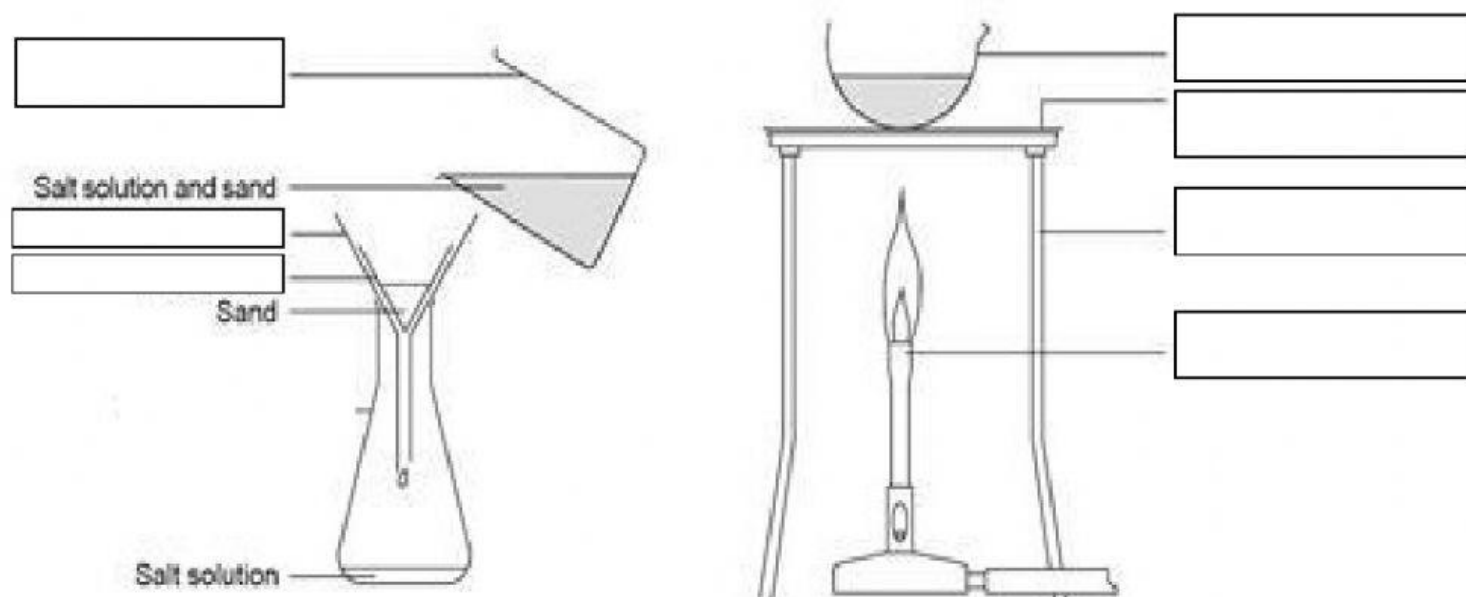
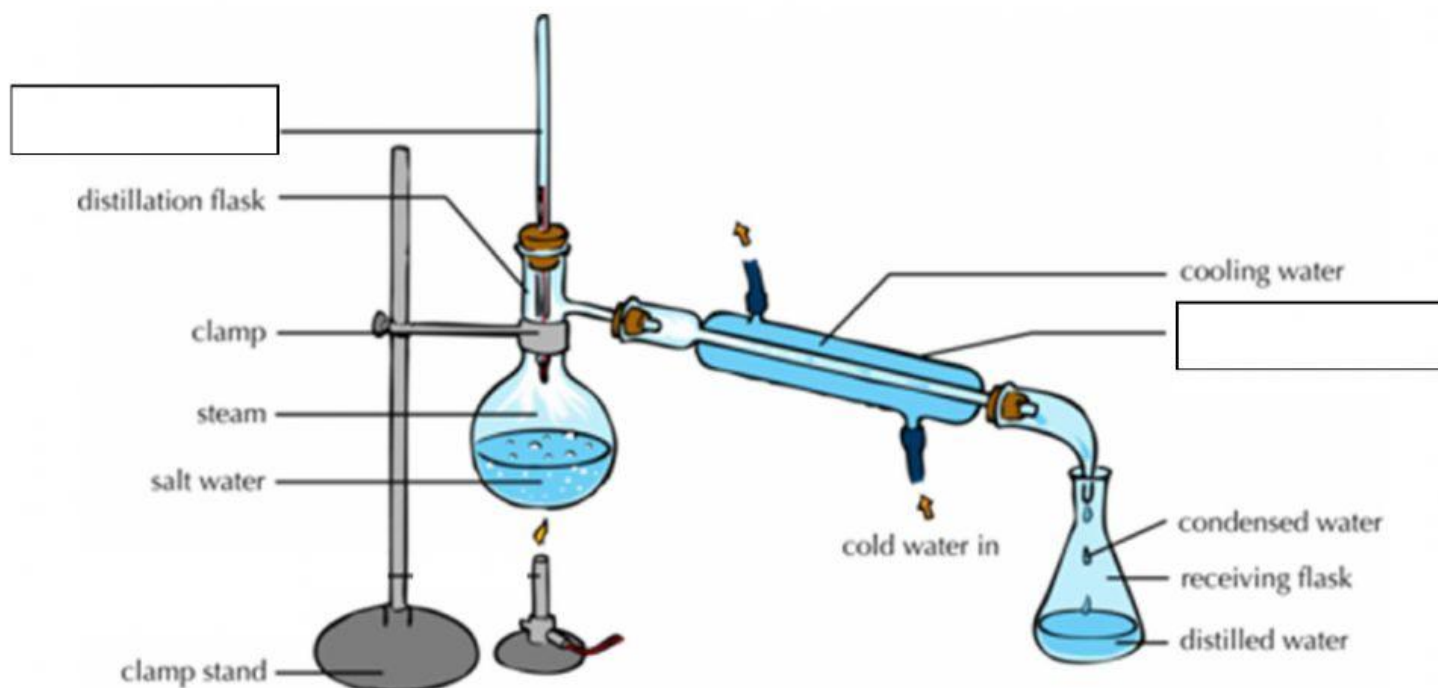


<https://edu.rsc.org/experiments/separatin>

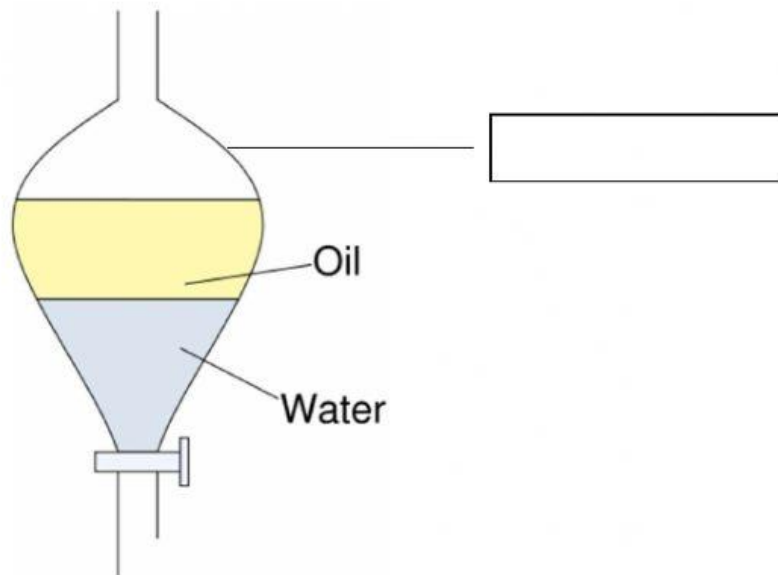


3. Label the following diagrams by dragging the correct word into the correct position:

beaker	thermometer	filter paper	tripod
evaporating dish/basin	bunsen burner	funnel	
condenser	wire gauze	separating funnel	



<https://edu.rsc.org/experiments/separating-sand-and-salt-by-filtering-and-evaporation/386.article>



Acknowledgements:

Unless otherwise specified, all pictures have been sourced from:

<https://intl.siyavula.com/read/science/grade-7/separating-mixtures/07-separating-mixtures?id=toc-id-4>