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)

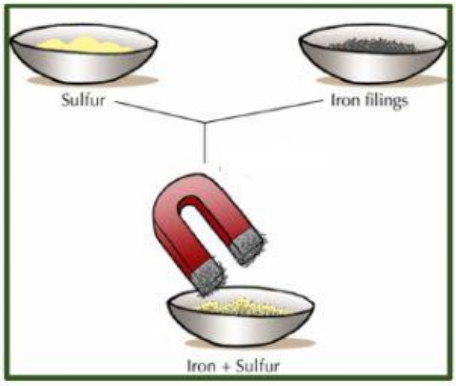
magnetism visual differences solute/solution solubility

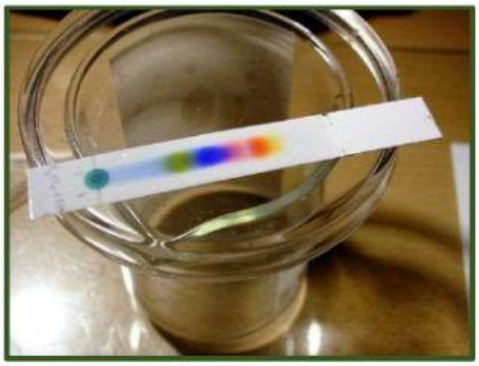
MIXTURE	SEPARATION TECHNIQUE	PROPERTY USED FOR SEPARATION
iron and sulphur		
sugar dissolved in water		
oil and paraffin		
alcohol in water		
mixture of dyes		
solid impurities in water		
pebbles in fine building sand		
mixture of different buttons		

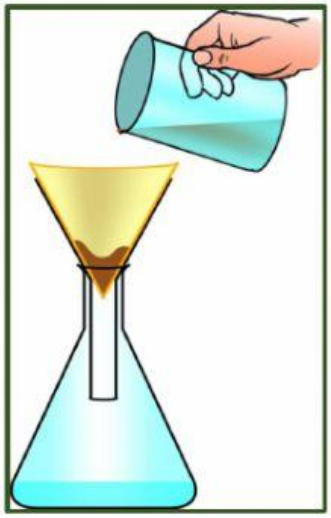
2. **Fill in the separation technique that is used to separate the mixture in each of the pictures below.**

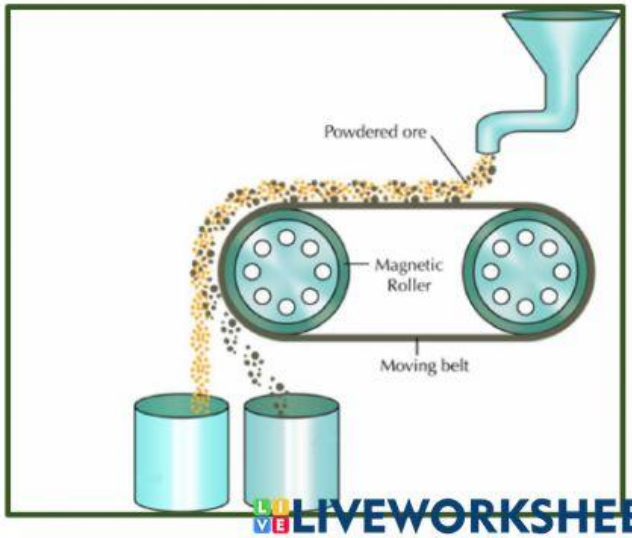
Choose from the following words – make sure you type it EXACTLY as shown so that the worksheet marks your answer correctly:

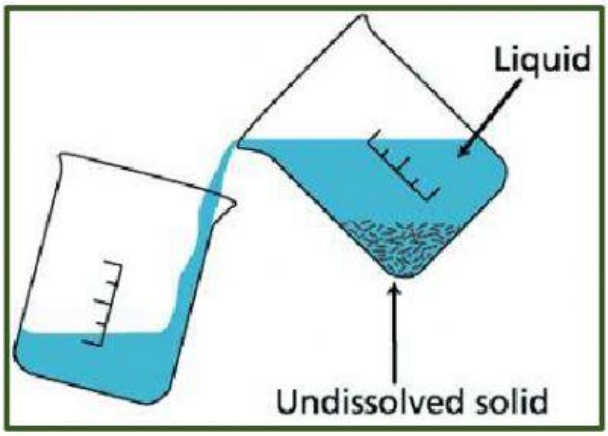
magnetism	filtration	evaporation
distillation	sifting	decantation
hand sorting	chromatography	





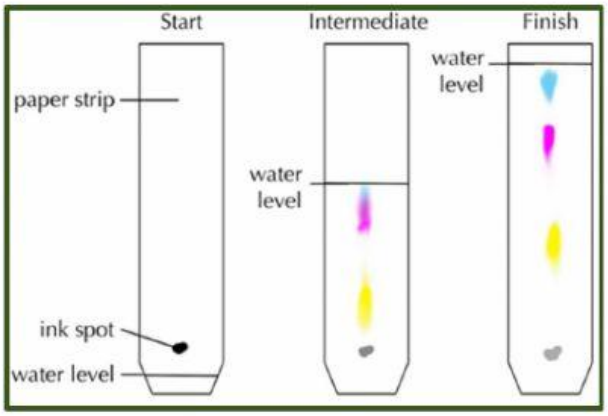


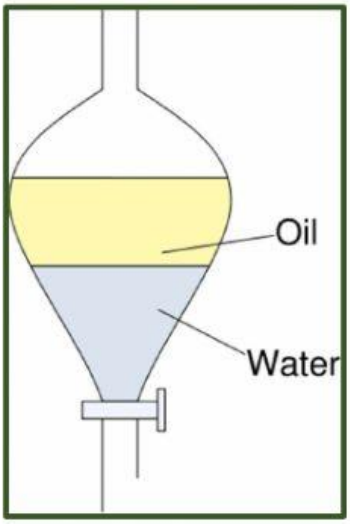


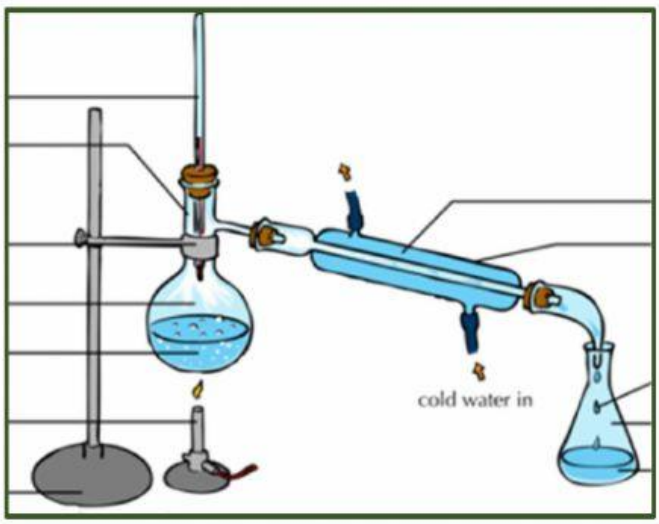


https://qknowbooks.gitbooks.io/class_5_science-mixtures/

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

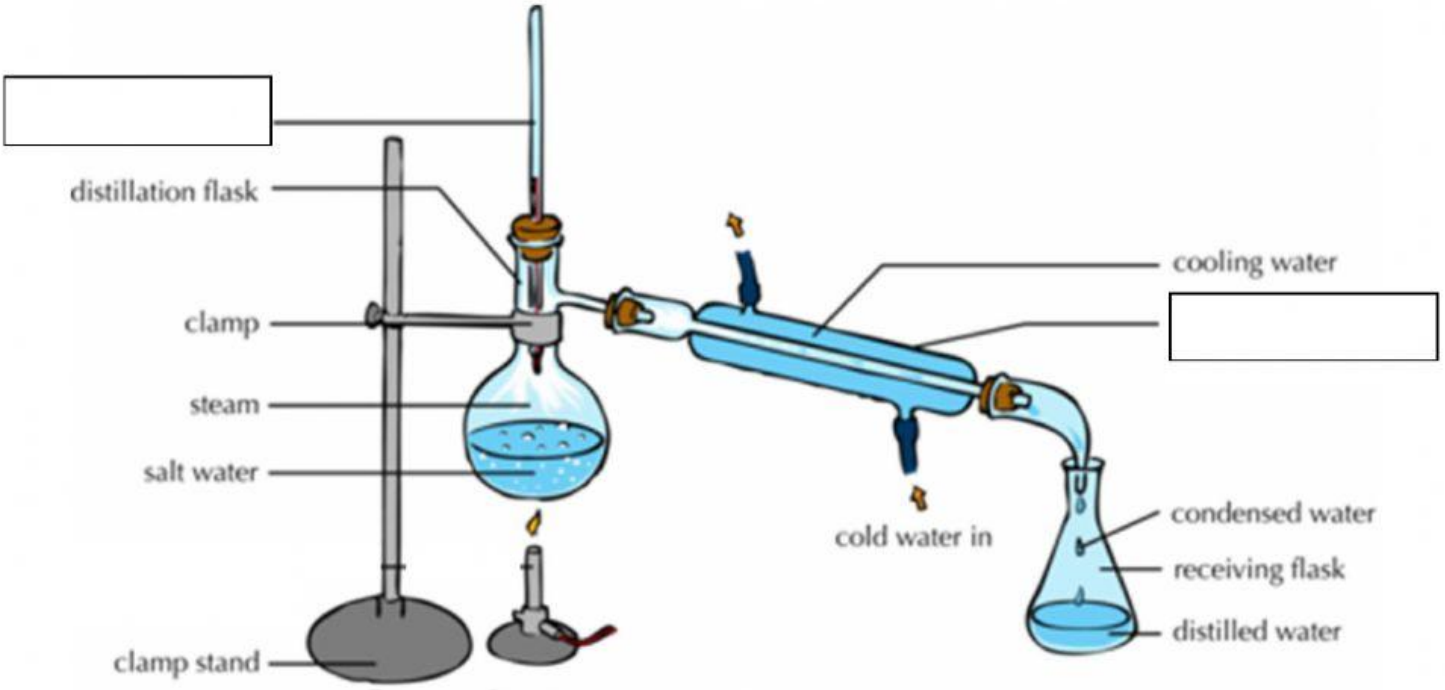


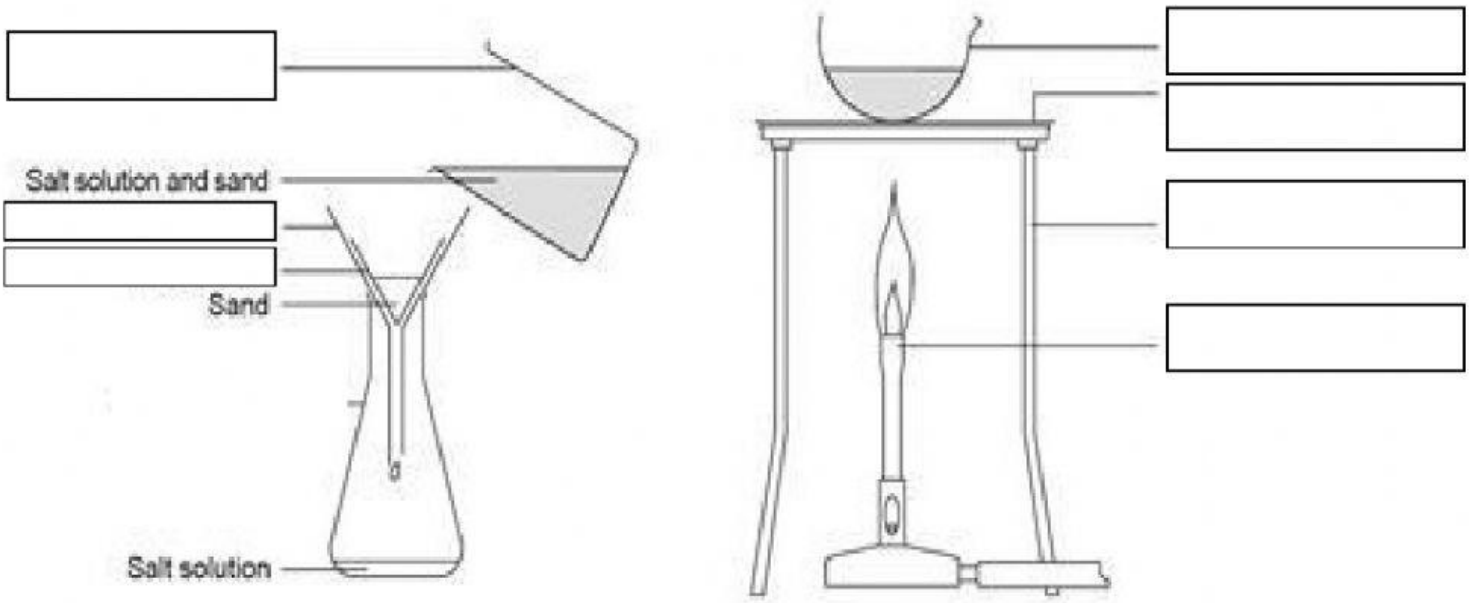




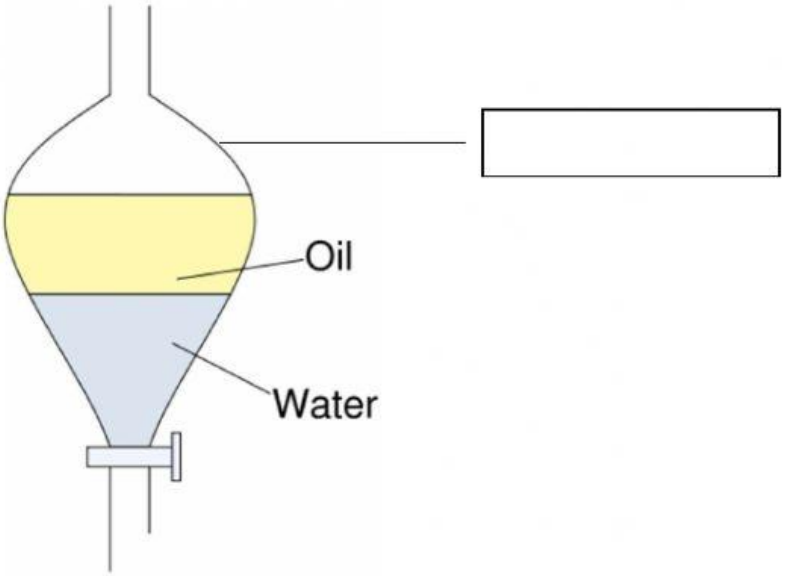
3. **Label the following diagrams by dragging the correct word into the correct position:**

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