

# WJEC GCSE Flashcards

## Component 2: Specific Practical 1B Separation of Liquids

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What is the name given to the process used to separate a mixture of substances with different boiling points?



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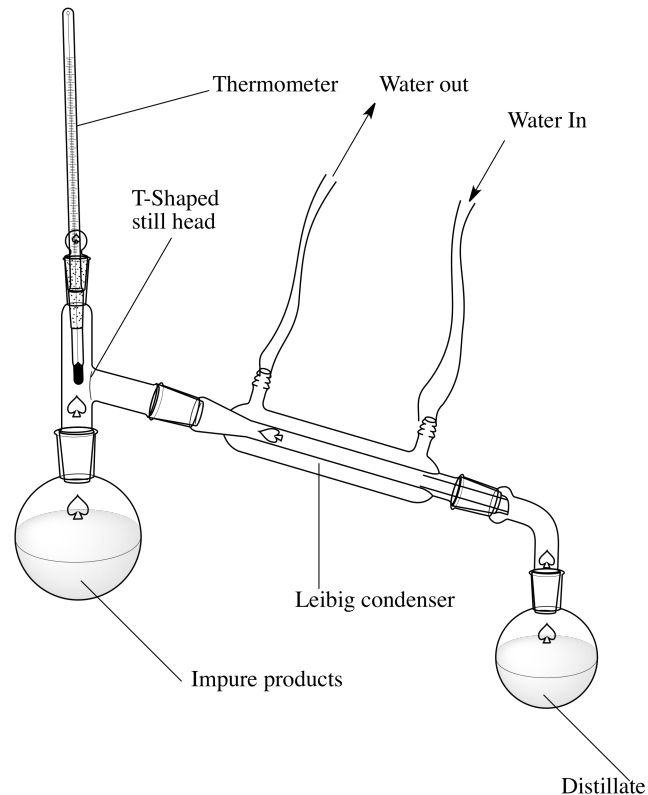
Fractional Distillation.



Draw a diagram of  
distillation apparatus.



# Draw a diagram of distillation apparatus.



What is the name given to the method used to separate a mixture of coloured substances?



What is the name given to the method used to separate a mixture of coloured substances?

Paper Chromatography.



In paper chromatography,  
what values are measured?

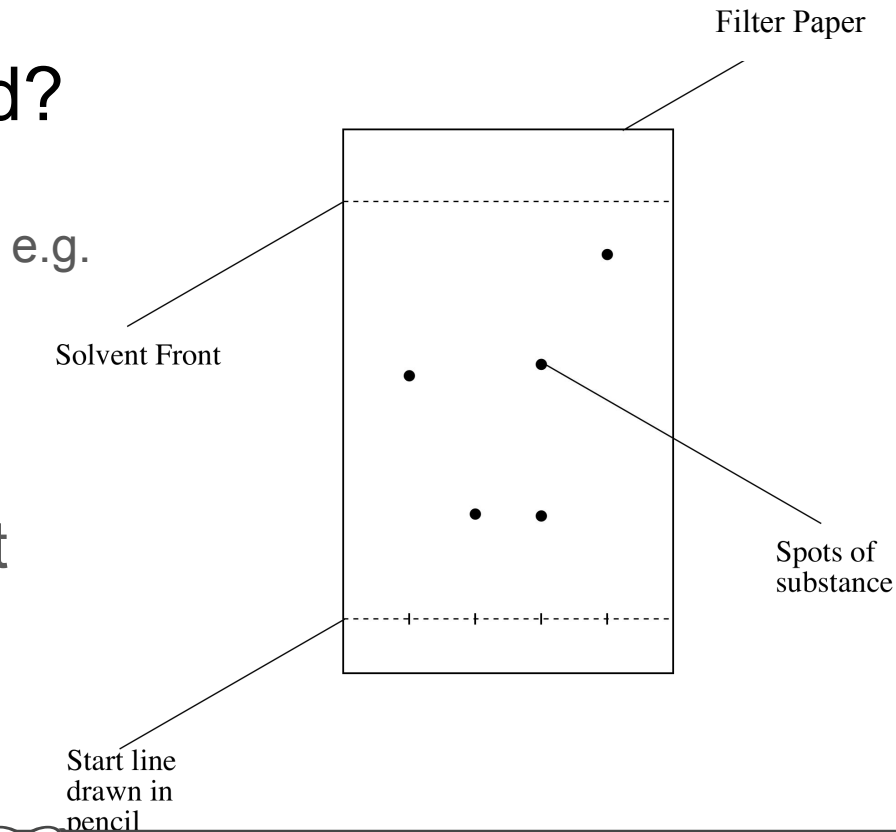




# In paper chromatography, what values are measured?

R<sub>f</sub> values are measured.

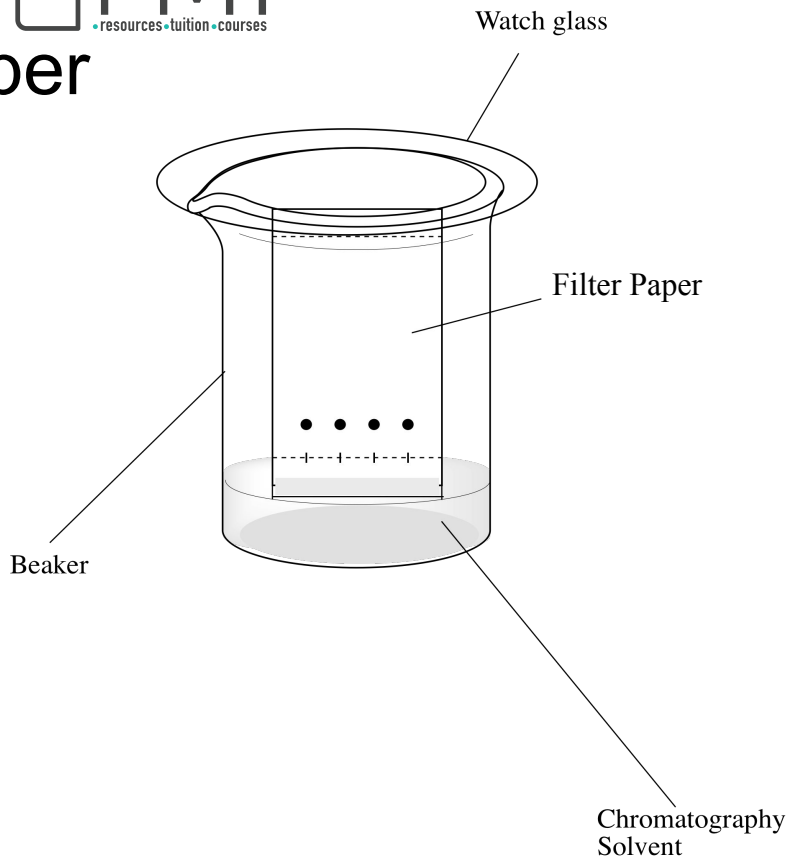
These are calculated as the difference between the distance moved by the solvent front and the substance.



Draw a diagram of paper chromatography equipment.



Draw a diagram of paper chromatography equipment.



How can  $R_f$  values be used  
to identify the substance  
present?



# How can $R_f$ values be used to identify the substance present?

$R_f$  values are specific to the substance in the different solvent conditions.

This means  $R_f$  values measured in the experiment can be compared to those in a data book, allowing the substances present to be identified.

