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**Separation Techniques - General Science Secondary 1**

by: [simplistik\_gal](http://www.quibblo.com/user/simplistik_gal)

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To ensure that you have learnt something from today's lesson, you are required to complete this quiz.

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1. 1

**What does the term 'solute' means?**

* + solid particles that are left behind after evaporation
	+ solid particles that are left behind after filtration on the filter paper
	+ the liquid that evaporates from a solution
	+ the liquid that is collected at the end of distillation
1. 2

**What property does paper chromatography make use of to separate its components?**

* + absorption rate of the chemicals
	+ the end product can be very pretty, with various colours on it
	+ components of a liquid mixture will travel at different rates
	+ a filter paper can be used
	+ solubility of the solvent in the filter paper
1. 3

**Which apparatus are not needed for the set-up when separation by evaporation is used?**

* + wire gauze
	+ solution
	+ tripod stand
	+ bunsen burner
	+ filter paper
1. 4

**If I know the components of a mixture and the boiling points of the components, which is a possible way to isolate the components in the mixture?**

* + Make use of paper chromatography
	+ Make use of fractional distillation
	+ Make use of magnetic attraction
	+ Make use of evaporation
1. 5

**In the lab, a scientist accidentally dropped a ball bearing into a beaker of hot water and wanted to get it out as soon as possible as the hot water will be used in an experiment. What can he do?**

* + Evaporate the hot water to get the ball bearing
	+ Use a magnet to attract the ball bearing and get it out of the beaker
	+ Use distillation to isolate the hot water.
	+ Use paper chromatography
1. 6

**Distillation is not used to**

* + separate a mixture with solid impurities in a solution
	+ separate a solvent from a solution
	+ separate and identify the components of a mixture
	+ separate a mixture of liquids in a solution
1. 7

**Which separation technique would be the best method to get clear water from a mixture of flour and water?**

* + Filtration
	+ Chromatography
	+ Distillation
	+ Evaporation
1. 8

**What does the term 'filtrate' means?**

* + solid particles that decompose upon heating
	+ the liquid that evaporates from a solution
	+ solid particles that are left behind after filtration on the filter paper
	+ the liquid that passes through the filter paper
1. 9

**When do we use evaporation to separate components?**

* + a solid-solid mixture when one of the components sublimes
	+ a liquid-solid mixture when solid particles can be seen in the mixture
	+ a solid-liquid mixture when solid particles are dissolved
	+ a liquid-liquid mixture when one of the liquids has a lower boiling point
1. 10

**Which separation technique do you use to separate a magnetic substance from a non-magnetic substance?**

* + chromatography
	+ filtration
	+ evaporation
	+ distillation
	+ magnetic attraction
1. 

**Which of these choices best describes you?**

* + I need to go to school and get my degree
	+ I want some info on my health and tips on how to start taking better care of myself
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