Worksheet 5.8

Science Quest 7: pages 199–201

Separation techniques

Student: ..... Class: .....

1. Complete the table to summarise what you know about separation techniques.

Method of separation	Description of how it works	An example of how it is used in the home or in industry
Filtration		
Distillation		
Crystallisation		
Flocculation		
Decanting		
Separating funnel		
Centrifuging		
Chromatography		

2. The diagram on the right shows a mixture being filtered in a school laboratory.

(a) Add the missing labels.

(b) What is the purpose of the stirring rod?

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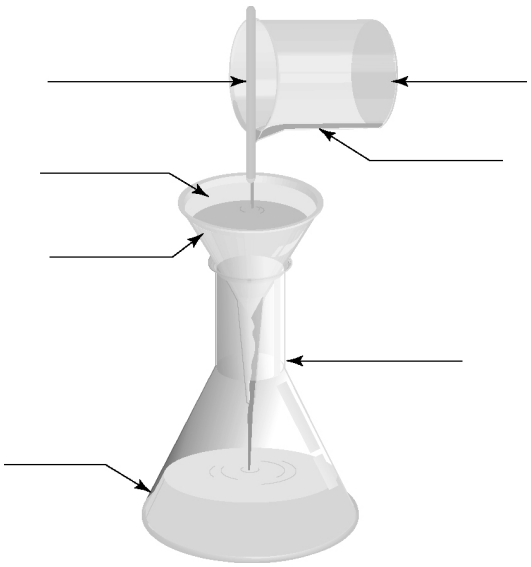

3. Complete the following word puzzle, using the clues provided below.

(a) S ___ ___ ___ ___ ___

(b) ___ E ___ ___ ___ ___

(c) ___ ___ ___ D ___ ___ ___ ___ ___ ___ ___ ___

(d) ___ ___ ___ ___ ___ I ___ ___ ___ ___

(e) ___ ___ ___ ___ M ___ ___ ___ ___ ___ ___ ___ ___ ___

(f) ___ ___ ___ ___ ___ ___ E

(g) ___ N ___ ___ ___ ___ ___ ___ ___

(h) ___ ___ ___ T ___ ___ ___ ___ ___ ___

(i) ___ ___ ___ ___ ___ ___ ___ A ___ ___ ___ ___

(j) ___ ___ ___ ___ ___ ___ ___ T ___ ___ ___

(k) ___ ___ ___ ___ ___ ___ I ___ ___

(l) ___ O ___ ___ ___ ___ ___

(m) ___ ___ ___ ___ ___ N ___ ___ ___ ___

Clues

(a) A substance that dissolves in a liquid

(b) Refers to our body's waste products

(c) When steam changes to liquid water

(d) An instrument used to separate plasma from blood cells

(e) A method of separating mixtures of dyes or inks

(f) The material trapped by the filter paper

(g) When a substance does not dissolve in a liquid we say it is ..... .

(h) A method of separation used to clean the air going into a car engine

(i) A method of separation used to purify water

(j) A process used to obtain salt from sea water

(k) A process used to separate mineral ores from gangue

(l) A liquid in which a substance will dissolve

(m) Undissolved particles spread throughout a liquid