



Science Class 8 Topic: Mixture Reinforcement Worksheet

Name:	Sec:	Date:			
Object	Objective				
Q.1 M	CQs				
1)	A process to separate insoluble solid from li	quid is			
	a) Evaporation	b) Filtration			
	c) Condensation	d) Crystallization			
2)	Gases from the air can be separated by				
	a) Filtration	b) Distillation			
	c) Fractional distillation	d) Chromatography			
3)	A process for the separation of colour pigmo	ents is			
	a) Distillation	b) Evaporation			
	c) Chromatography	d) Freezing			
4)	Petrol from the crude oil can be obtain thro	ugh			
	a) Chromatography	b) Fractional distillation			
	c) Solar distillation	d) Simple distillation			
5)	Air is a type of				
	a) Gases	b) Mixture			
	c) Compound	d) Elements			

6)	Brass is an alloy of		
	a) Copper and Zinc	b) Copper and Tin	
	c) Iron and Copper	d) Zinc and Silver	
7) Di	amond is an example of		
	a) Alloy	b) Element	
	c) Mixtures	d) Compound	
	thich of the following separation techings with different boiling points?	nique has been used to separate more than tw	О
	a) Chromatography	b) Distillation	
	c) Fractional Distillation	d) Evaporation.	
9) W	hat is the residue obtained when san	d and salts solution is filtered?	
	a) Sand	b) Salt	
	c) Water	d) No Residue	
10) \	Which of the following are mixtures?		
	i) Air ii) Distilled water iii) Fi	zzy drink iv) Bronze	
	a) (i) and (ii) only	b) (i) (ii) and (iii) only	
	c) (i) (ii) and (iv) only	d) (i) (iii) and (iv) only	

Q2. State whether True or False. Correct the false statement.

i) Chalk in water can be separated by filtration.	[]
ii) Police scientists use chromatography to solve crimes.	[]
iii) Alcohol and water can be separated easily by fractional distillation.	[]
iv) Distillation involves boiling and condensation.	[]
v) Pure water boils at different temperatures in different parts of earth.	[]

Q3. Match the Column.

Column A	Column B
Chromatography	insoluble solid
Evaporation	100 °C
Condensation	Blood
Distillation	Liquid gases
Filtration	Distilled water

Q4. Match the following gases in air with the percentage composition and write the answer in column 'C'.

Gases in Air (A)	Percentage Composition (B)	Column 'C'
(i) Oxygen	(a)78%	
(ii) Carbon Dioxide	(b)Variable	
(iii) Nitrogen	(c)21%	
(iv) Rare Gases	(d)0.03%	
(v) Water Vapours	(e) 1%	

Q5. Name the method by which you will separate the following mixtures:
--

	(i)	Iron Filings & Sulphur		
	(ii)	Different Coloured Dyes _		
	(iii)	Ink & Water		
	(iv)	Sand & Salt in Water		
	(v)	Different Gases in Air		
		or each.	ixtures or compounds. Justify your answers giving to	vo
b. Hydrogen is the lightest element. However, Helium is used in hot air balloons instead of Hydrogen. Explain.				

pen. She used:				
• green ink			\Diamond	\Diamond
• blue ink			red	
• purple ink	0	0		
• ink from her felt-tip pen.	dark blue	dark blue		
She used water as the solvent.	yellow			0
water			() pink	
line where spots of ink		pale blue	pale blue	0
were placed	green ink	blue ink	purple ink	ink from felt-tip pen
Look at the diagram above.				
(a) (i) Which colours were present in the	ink from the	felt-tip pen.		
(ii) How many coloured substances we	ere there in g	reen ink? Ho	w can you tell	?
(iii) Susie placed the spots of ink on a diagram. To draw the line, Susie h				nown in the
(iv) Give the reason for your answer.				

Q7. Susie used chromatography to identify the coloured substances in the ink from a felt-tip

b) Susie used water as the	solvent in this experiment.
When she repeated the	experiment with a different set of pens, it did not work.
She then used ethanol i	nstead of water.
Suggest why the experi	ment worked with ethanol but not with water.
cand mixed in it. (a) Chris separated the	ea water near a beach. The sea water had salt dissolved in it. It had sand from the salt water as shown below d of separation called? [1]
rick the correct box	В
Chromatography	distillation
filtration	magnetism
(ii) What is substance A	belled B?salt wat
	of the salt water from the flask into a dish. a balance and left it in a warm room for a week.
150.09	
(i)	
Work out the decre	
• •	re was a white solid but no liquid in the dish. ed to the water in the dish?
(iii) What was the whit	te solid left in the dish?
(iii) villac was the will	John Tere men distri