

Solutions



Lesson Outline

This lesson will cover solutions. Specifically, we will focus on the terms and methods used when dealing with these substances. You can learn about these topics by watching the videos below:

What are solutions?

https://www.youtube.com/watch?v=iWOnCH8m5ug

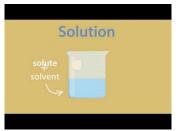
You only have to watch until 12:42

Solutions and Colloids and Suspensions, Oh my! https://www.youtube.com/watch?v=yMzl9InNOQA

How to separate Solutions, Mixtures & Emulsions https://www.youtube.com/watch?v=GV6IdpFwIGk







Chromatography

https://www.youtube.com/watch?v=PvHvx7k7UPU



Boiling point and Melting point - Physical properties https://www.youtube.com/watch?v=AW8v2Fx0Y8c



Alloy & their Properties/Properties of Matter/ Chemistry/ Fuseschool

https://www.youtube.com/watch?v=KgUmNQD6m5Q







- 1. solvent +? = solution (1 Mark)
 - a) emulsion
 - b) mixture
 - c) water
 - d) solute
- 2. True or False (1 Mark)

All solutions are liquids.

- a) true
- b) False

a) 70 °C			
b) 120 °C			
c) 100 °C			
d) 200 °C			
Name three ways that th	ne rate of dissolution (dissolv	ing) can be increased for	when a solid solute is
ded to a liquid solvent?	ie race or aissolation (aissolv	mg, can be mereased for	When a sona sonate is
,			(3 marks)
Fill in the properties of the 3	different types of mixtures. The	first three properties can be	answered with yes/no.
	properties are NOT in the video,		
Property	Solution	Colloid	Suspension
Settle out	No		
Filtration			
	,		
Tyndall effect			
Tyndall effect Particle size	small		
Particle size			
Particle size Homogeneous or	small		
Particle size			
Particle size Homogeneous or			
Particle size Homogeneous or heterogeneous	homogeneous		
Particle size Homogeneous or heterogeneous	homogeneous		
Particle size Homogeneous or heterogeneous	homogeneous		
Particle size Homogeneous or heterogeneous Give one use for each of the onze -	homogeneous e following alloys: (3 marks)		
Particle size Homogeneous or heterogeneous Give one use for each of the onze -	homogeneous e following alloys: (3 marks)		
Particle size Homogeneous or heterogeneous Give one use for each of the onze	homogeneous e following alloys: (3 marks)		
Particle size Homogeneous or	homogeneous e following alloys: (3 marks)		

3. An alloy is ? than a metal. (1 Mark)

4. The boiling point of water is? (1 Mark)

a) harderb) softer

Answer the following in FULL sentences

8. How can you tell that a solution is saturated? (1 marks)
9. How would you remove ethanol from water? Why is this possible? (3 marks)
10. Explain why an alloy is harder than a metal. Draw illustrations in the boxes and write explanatory sentences below
them. (6 marks)
Metal
Alloy
, and the state of

Filtration:				
Evaporation:				
Simple-distillation				
12 Describe the process of sh	romatography and s	ovudat it is usad fa	or (F monda)	
12. Describe the process of ch		ay what it is used io	r. (5 marks)	

11. Give definitions for the following methods of separation. (3 marks)