

Separation of Mixtures Assessment

Student Name:	Class:
Student ID:	Date: {{DATE}}
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Assessment Details

Duration: 45 minutes	Total Marks: 60	
Topics Covered:	FiltrationDistillationChromatographyCentrifugation	

Instructions to Students:

- 1. Read all questions carefully before attempting.
- 2. Show all working out marks are awarded for method.
- 3. Calculator use is permitted except where stated otherwise.
- 4. Write your answers in the spaces provided.
- 5. If you need more space, use the additional pages at the end.
- 6. Time management is crucial allocate approximately 1 minute per mark.

Section A: Multiple Choice [10 marks]

Question 1	[2 marks]
What is the primary principle behind the separa	ation method of filtration?
A) Difference in boiling points	B) Difference in particle size
C) Difference in density	D) Difference in color
Question 2	[2 marks]
	[2 marks] varate a mixture of two liquids with different boiling points?
Question 2 Which of the following methods is used to separate to separate A) Filtration	

Section B: Short Answer Questions [20 marks]

Question 3		[8 mark
escribe the process of c	distillation and explain how it is used	d to separate a mixture of two liquids.
Question 4		[8 mark
Vhat are the advantages	and disadvantages of using chrom	
Vhat are the advantages	and disadvantages of using chrom	
What are the advantages	and disadvantages of using chrom	
Question 4 What are the advantages substances?	and disadvantages of using chrom	

Section C: Interactive Simulations [15 marks]

Simulation 1 [5 marks]
Separating a Mixture of Sand and Water using Filtration and Decantation
a) What is the purpose of filtration in this simulation? [2 marks]
b) What are the advantages of using filtration to separate a mixture of sand and water? [3 marks]
Simulation 2 [10 marks]
Purifying a Substance using Distillation a) What is the purpose of distillation in this simulation? [2 marks]
b) What are the advantages of using distillation to purify a substance? [3 marks]
Page 0 Separation of Mixtures Assessment
c) Describe the process of distillation and how it is used to separate a mixture of two liquids. [5 marks]



Section D: Diagram Labeling [15 marks]

Question 5	[10 marks
Label the different parts of a distillation apparatus a	and explain their functions.
Question 6	[5 marks
Label the different stages of the filtration process a	nd explain what happens at each stage.