## **Faculty Submitting**: Siobhan Toal **Specify here whether "Pre" or "End" of Unit and the Unit #:** Pre Unit 10

LOs:

Describe the steps and energetics of forming a solution

Describe and calculate the impact of colligative properties (freezing point depression, boiling point elevation, osmotic pressure, vapor pressure) of solutions

Calculate the partial pressure of solution components and the vapor pressure of a solution using Raoult's Law

Readings: Ch 11

Readings: Ch 11		
Unit 10_	Canvas Question Type: Fill in Multiple Blanks	
Question 1	GROUP	
а	Question Text:	
	In the dissolution process, expansion of solute particles [blank1] energy in order to	
	overcome [blank2] interactions.	
	Blank 1	
	Correct Answer	
	Requires	
	Wrongs Answer	
	Releases	
	Blank 2	
	Correct Answer	
	Solute-solute attraction	
	Wrong Answer	
	Solute-solute repulsion	
	Solute-solvent attraction	
	Solute-solvent repulsion	
	Solvent-solvent attraction	
b	Question Text:	
	In the dissolution process, expansion of solvent particles [blank1] energy in order to	
	overcome [blank2] interactions.	
	Blank 1	
	Correct Answer	
	Requires	
	Wrongs Answer	
	Releases	

Correct Answer Solvent-solvent attraction Wrong Answer Solute-solute attraction Solute-solvent repulsionRead Morehttps://openstax.org/books/chemistry-2e/pages/11-1-the-dissolution-process Correct Answer: SolubilityWrong Answers freezing point depression boiling point depression boiling point depression boiling or pressure lowering Osmotic PressureRead Morehttps://openstax.org/books/chemistry-2e/pages/11-4-colligative-propertiesUnit 10 Question 3Canvas Question Type: Multiple Choice Question 4Question Text: The phrase "like dissolves like" refers to the fact that: Correct Answer: solvents more readily dissolve solutes of similar structure and polarity Wrong Answer: solvents dissolve solutes of similar molar mass polar solvents dissolve nonpolar solutes and vice versaRead Morehttps://openstax.org/books/chemistry-2e/pages/11-3-solubilityUnit 10 Unit 10 Canvas Question Type: MatchingCanvas Question Type: Matching		
Solvent-solvent attraction Wrong Answer Solute-solute attraction Solute-solvent attraction Solute-solvent attraction Solute-solvent attraction Solute-solvent attraction Solute-solvent repulsionRead Morehttps://openstax.org/books/chemistry-2e/pages/11-1-the-dissolution-processUnit 10_ Question 2Canvas Question Type: Multiple Choice Question Text: Which of the following is not a colligative property?Correct Answer: SolubilityCorrect Answer: SolubilityWrong Answers freezing point depression boiling point elevation vapor pressure lowering Osmotic PressureCanvas Question Type: Multiple ChoiceUnit 10_ Question 3Canvas Question Type: Multiple ChoiceUnit 10_ Question 4Canvas Question Type: Multiple ChoiceUnit 10_ Question 3Question Type: Multiple ChoiceRead More Unit 10_ Question 4https://openstax.org/books/chemistry-2e/pages/11-4-colligative-propertiesUnit 10_ Question 5Question Type: Multiple ChoiceUnit 10_ Vrong Answer: solvents more readily dissolve solutes of similar structure and polarity Wrong Answer: solvents dissolve solutes of similar molar mass polar solvents dissolve nonpolar solutes and vice versaRead More Inttps://openstax.org/books/chemistry-2e/pages/11-3-solubilityUnit 10_ Unit 10_ Canvas Question Type: Matching		Blank 2 Correct Answer
Wrong Answer Solute-solute attraction Solute-solute repulsionRead Morehttps://openstax.org/books/chemistry-2e/pages/11-1-the-dissolution-processUnit 10_ Question 2Canvas Question Type: Multiple ChoiceQuestion 2Question Text: Which of the following is not a colligative property?Correct Answer: 		
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Solute-solute repulsion Solute-solvent attraction Solute-solvent repulsionRead Morehttps://openstax.org/books/chemistry-2e/pages/11-1-the-dissolution-processUnit 10 Question 2Canvas Question Type: Multiple ChoiceQuestion 2Question Text: Which of the following is not a colligative property?Correct Answer: SolubilityCorrect Answer: SolubilityWrong Answers freezing point depression boiling point elevation vapor pressure lowering Osmotic PressureUnit 10 Question 3Canvas Question Type: Multiple ChoiceUnit 10 Question 4Canvas Question Type: Multiple ChoiceUnit 10 Question 5Question Text: The phrase "like dissolves like" refers to the fact that: Correct Answer: solvents more readily dissolve solutes of similar structure and polarity Wrong Answer: solvents can only dissolve solutes of similar molar mass polar solvents dissolve nonpolar solutes and vice versaRead Morehttps://openstax.org/books/chemistry-2e/pages/11-3-solubilityUnit 10 Unit 10 LCanvas Question Type: Multiple Choice		-
Solute-solvent attraction Solute-solvent repulsionRead Morehttps://openstax.org/books/chemistry-2e/pages/11-1-the-dissolution-processUnit 10_ Question 2Canvas Question Type: Multiple ChoiceQuestion 12Question Text: Which of the following is not a colligative property?Correct Answer: SolubilityCorrect Answer: SolubilityWrong Answers freezing point depression boiling point elevation vapor pressure lowering Osmotic PressureUnit 10_ Question 3Canvas Question Type: Multiple ChoiceUnit 10_ Question Text: The phrase "like dissolves like" refers to the fact that: Correct Answer: solvents more readily dissolve solutes of similar structure and polarity Wrong Answer: solvents an only dissolve solutes of similar molar mass polar solvents dissolve nonpolar solutes and vice versaRead Morehttps://openstax.org/books/chemistry-2e/pages/11-3-solubilityUnit 10_ Unit 10_ Lorrect Answer: solvents dissolve nonpolar solutes and vice versa		
Read Morehttps://openstax.org/books/chemistry-2e/pages/11-1-the-dissolution-processUnit 10_ Question 2Canvas Question Type: Multiple ChoiceQuestion 12Question Text: Which of the following is not a colligative property?Correct Answer: SolubilityCorrect Answer: SolubilityWrong Answers freezing point depression boiling point elevation vapor pressure lowering Osmotic PressureRead Morehttps://openstax.org/books/chemistry-2e/pages/11-4-colligative-propertiesUnit 10_ Question 3Canvas Question Type: Multiple ChoiceQuestion Text: The phrase "like dissolves like" refers to the fact that: Correct Answer: solvents more readily dissolve solutes of similar structure and polarity Wrong Answer: solvents dissolve nonpolar solutes and vice versaRead Morehttps://openstax.org/books/chemistry-2e/pages/11-3-solubilityUnit 10_ Unit 10_ LCanvas Question Type: Matching		
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Unit 10 Question 2Canvas Question Type: Multiple ChoiceQuestion 2Question Text: Which of the following is not a colligative property?Correct Answer: SolubilityCorrect Answer: SolubilityWrong Answers freezing point depression boiling point elevation vapor pressure lowering Osmotic PressureRead Morehttps://openstax.org/books/chemistry-2e/pages/11-4-colligative-propertiesUnit 10 Question 3Canvas Question Type: Multiple Choice Question Type: Multiple ChoiceUnit 10 Question 5Question Type: Multiple Choice Solvents more readily dissolve solutes of similar structure and polarity Wrong Answer: solvents can only dissolve solutes of similar molar mass polar solvents dissolve nonpolar solutes and vice versaRead Morehttps://openstax.org/books/chemistry-2e/pages/11-3-solubilityUnit 10 Unit 10 Canvas Question Type: MatchingCanvas Question Type: Matching		
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Correct Answer:     solvents more readily dissolve solutes of similar structure and polarity     Wrong Answer:     solvents can only dissolve solutes of similar molar mass     polar solvents dissolve nonpolar solutes and vice versa     Read More     https://openstax.org/books/chemistry-2e/pages/11-3-solubility     Unit 10_   Canvas Question Type: Matching	_	Canvas Question Type: Multiple Choice
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Unit 10_ Canvas Question Type: Matching		polar solvents dissolve nonpolar solutes and vice versa
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	Unit 10_ Question 4	Canvas Question Type: Matching
Question Text:	-	Question Text:

	Unsaturated Solution – non-equilibrium solution in which solute concentration is
	below solubility
	Saturated Solution – equilibrium solution where solute concentration is at solubility
	Supersaturated Solution – nonequilibrium solution above solubility
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<b>Unit 10</b>	Canvas Question Type: Fill in the blank
Question 5	
Question e	Question Text:
	The vapor pressure above miscible solution is [blank] that of a pure solvent.
	The vapor pressure above misciple solution is [blank] that of a pure solvent.
	Correct Answer:
	Wrong Answers:
	<
	=
	Not enough information given
<b>Read More</b>	https://openstax.org/books/chemistry-2e/pages/10-3-phase-transitions
	https://openstax.org/books/chemistry-2e/pages/11-4-colligative-properties
Unit 10	Canvas Ouestion Type: Multiple Answers/Checkbox
Unit 10_ Ouestion 6	Canvas Question Type: Multiple Answers/Checkbox
Unit 10_ Question 6	
	Question Text:
	Question Text: According to Raoult's Law the partial pressure that volatile substance "A" exerts above
	Question Text:
	Question Text: According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:
	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:
	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (XA)
	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution
	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution     Total moles of all volatile substances in solution
	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution
	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution     Total moles of all volatile substances in solution     Vapor Pressure of pure substance A (P <sub>A</sub> )
	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution     Total moles of all volatile substances in solution
	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution     Total moles of all volatile substances in solution     Vapor Pressure of pure substance A (P <sub>A</sub> )
	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution     Total moles of all volatile substances in solution     Vapor Pressure of pure substance A (P <sub>A</sub> )     Wrong Answers:
	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution     Total moles of all volatile substances in solution     Vapor Pressure of pure substance A (P <sub>A</sub> )     Wrong Answers:
Question 6	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution     Total moles of all volatile substances in solution     Vapor Pressure of pure substance A (P <sub>A</sub> )     Wrong Answers:     none     https://openstax.org/books/chemistry-2e/pages/11-4-colligative-properties
Question 6	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution     Total moles of all volatile substance A (P <sub>A</sub> )     Wrong Answers:     None
Question 6	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution     Total moles of all volatile substances in solution     Vapor Pressure of pure substance A (P <sub>A</sub> )     Wrong Answers:     none     https://openstax.org/books/chemistry-2e/pages/11-4-colligative-properties     Canvas Question Type: Multiple blanks
Question 6 Read More Unit 10_	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution     Total moles of all volatile substances in solution     Vapor Pressure of pure substance A (P <sub>A</sub> )     Wrong Answers:     none     https://openstax.org/books/chemistry-2e/pages/11-4-colligative-properties     Canvas Question Type: Multiple blanks
Question 6 Read More Unit 10_	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution     Total moles of all volatile substances in solution     Vapor Pressure of pure substance A (P <sub>A</sub> )     Wrong Answers:     none     https://openstax.org/books/chemistry-2e/pages/11-4-colligative-properties     Canvas Question Type: Multiple blanks     Question Text:     The freezing point of a dilute solution compared to that of the pure solvent [blank1],
Question 6 Read More Unit 10_	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution     Total moles of all volatile substances in solution     Vapor Pressure of pure substance A (P <sub>A</sub> )     Wrong Answers:     none     https://openstax.org/books/chemistry-2e/pages/11-4-colligative-properties     Canvas Question Type: Multiple blanks     Question Text:     The freezing point of a dilute solution compared to that of the pure solvent [blank1], while the boiling point of a silute solution compared to that of the pure solvent
Question 6	Question Text:     According to Raoult's Law the partial pressure that volatile substance "A" exerts above a solution depends directly on:     Correct Answer:     Mole fraction of substance A in solution (X <sub>A</sub> )     Moles of A in solution     Total moles of all volatile substances in solution     Vapor Pressure of pure substance A (P <sub>A</sub> )     Wrong Answers:     none     https://openstax.org/books/chemistry-2e/pages/11-4-colligative-properties     Canvas Question Type: Multiple blanks     Question Text:     The freezing point of a dilute solution compared to that of the pure solvent [blank1],

	Blank 1: depresses (lowers) Blank 2: elevates (raises)
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Unit 10_ Question 7	Canvas Question Type: Matching
	Question Text:
	Label the phases in the following phase diagram:
	A B C temperature
	A – solid B- liquid
	C-gas
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