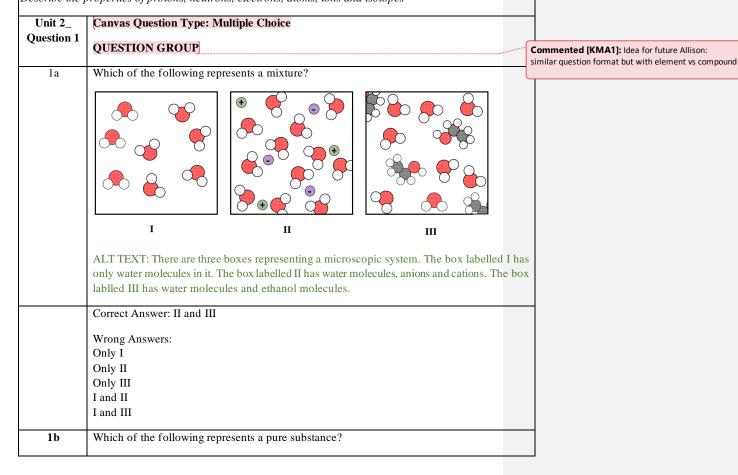
Faculty Submitting: Allison Kelly

Specify here whether "Pre" or "End" of Unit and the Unit #: Pre Unit 2

LOs: Distinguish elements from compounds, pure substances from mixtures, homogeneous from heterogeneous mixtures (solutions), and physical from chemical properties

Write formulas and names for elements, cations and anions, oxoacids, and ionic and covalent compounds Describe the properties of protons, neutrons, electrons, atoms, ions and isotopes



	ALT TEXT: There are three boxes representing a microscopic system. The box labelled I has only water molecules in it. The box labelled II has water molecules, anions and cations. The box labelled III has water molecules and others are three boxes representing a microscopic system.
	lablled III has water molecules and ethanol molecules. Correct Answer: Only II
	Wrong Answers: Only I Only III II and III I and III I and III
Read More	https://openstax.org/books/chemistry-2e/pages/1-2-phases-and-classification-of-matter
Unit 2_ Question 2	Canvas Question Type: Multiple Fill in the Blank
	Elements cannot be broken down by [chemical] changes. [Compounds] are pure substances made of two or more elements.
Read More	https://openstax.org/books/chemistry-2e/pages/1-2-phases-and-classification-of-matter#CNX_Chem_01_02_MattType
Unit 2_ Question 3	Canvas Question Type: Multiple Answers QUESTION GROUP
3a	Which of the following are physical properties?
	Correct answers:

	Wrong Answers:	
	Toxicity	
	Acidity	
	Flammability	
	Tammaomty	
3b	Which of the following are chemical properties?	
	Correct answers:	
	Toxicity	
	Acidity	
	Flammability	
	Wrong Answers	
	Density	
	Melting point	
	Hardness	
Read More	https://openstax.org/books/chemistry-2e/pages/1-3-physical-and-chemical-properties	
Unit 2	Canvas Question Type: Matching	
Question 4	can as Question Type: Materials	
	Atomic Number: The number of protons in an atom	
	Mass Number: The number of protons and neutrons in an atom	
	Atomic Mass: The mass of an atom	
Read More	https://openstax.org/books/chemistry-2e/pages/2-3-atomic-structure-and-symbolism	
Unit 2_ Question 5	Canvas Question Type: Fill in Multiple Blanks	
	According to Dalton's Postulates	
	A compound consists of [atoms] of two or more elements combined in a small, [whole]-number ratio. For a given compound, the atoms are always present in the same [ratio].	
Read More	https://openstax.org/books/chemistry-2e/pages/2-1-early-ideas-in-atomic-theory	
Unit 2_ Question 6	Canvas Question Type: Matching	
	Match the laws to their definitions	
	Law of Constant Proportions – The elements of a compound are present in fixed proportions	
	Law of Conservation of Mass – Mass is neither created or destroyed	
Read More	https://openstax.org/books/chemistry-2e/pages/2-1-early-ideas-in-atomic-theory	

Unit 2_	Canvas Question Type: Multiple Choice	
Question 7	QUESTION GROUP	
7a	Which of the following was the result of J.J. Thompson's Cathode Ray Experiment?	
, u	which of the following was the feduce of s.s. Thompson's Cathode Ray Experiment:	
	Correct Answer: Observed electrons and determined the charge to mass ratio	
	Wrong Answers:	
	Demonstrated the existence of the nucleus of the atom	
	Determined the charge on the electron	
7b	Which of the following was the result of R.A. Millikan's Oil Drop Experiment?	
	Correct Answer: Determined the charge on the electron	
	Wrong Answers:	
	Observed electrons and determined the charge to mass ratio	
	Demonstrated the existence of the nucleus of the atom	
7c	Which of the following was the result of Rutherford's Gold Foil Experiment?	
	Correct Answer: Demonstrated the existence of the nucleus of the atom	
	W. A	
	Wrong Answers:	
	Observed electrons and determined the charge to mass ratio Determined the charge on the electron	
	Determined the charge on the electron	
Read More	https://openstax.org/books/chemistry-2e/pages/2-2-evolution-of-atomic-theory	
Unit 2_	Canvas Question Type: Multiple Drop Downs	
Question 8		
	Isotopes are atoms that contain the same number of [dropone] but different numbers of [droptwo	ol .
		1
	DropOne Correct Answer: protons	
	Correct Allswer, protons	
	Wrong Answers: electrons, neutrons	
	DropTwo	
	Correct Answer: neutrons	
	Wrong Answers: protons, electrons	
Read More	https://openstax.org/books/chemistry-2e/pages/2-3-atomic-structure-and-symbolism	Commen
Unit 2	Canvas Question Type: Multiple Choice	a question
Question 9	Canvas Quesuon Type: Muniple Choice	
Question 9		Commen

Commented [KMA2]: Could eventually build this out into a question group

Commented [KMA3]: Removed this question because of difficulty and because I actually wrote 11 questions instead of 10

	For which of the following compounds is the empirical formula the same as the molecular			
	formula?			
	Comment American C.H.O.			
	Correct Answer: C ₂ H ₆ O			
	Wrong Answers:			
	$C_6H_{12}O_6$			
	C ₆ H ₁₄			
	N_2O_2			
Read More	https://openstax.org/books/chemistry-2e/pages/2-4-chemical-formulas			
Unit 2_	Canvas Question Type: Multiple Answers			
Question 10	Canvas Question Type: Multiple Answers			
Question to				
	Which of the following are true for ionic compounds?			
	Correct Answers:			
	Composed of a metal and a nonmetal			
	Solids with high melting temperatures			
	Conduct electricity when melted			
	Formed by transferring electrons			
	Wrong Answers:			
	Formed by sharing electrons			
Read More	https://openstax.org/books/chemistry-2e/pages/2-6-ionic-and-molecular-compounds			
Read More	mtps://openstax.org/books/chemistry-2e/pages/z-o-ionic-and-molecular-compounds			
Unit 2_	Canvas Question Type: Multiple Drop Downs			
Question 11				
	An anion has [dropone] electrons to become [droptwo] charged			
	A cation has [dropthree] electrons to become [dropfour] charged			
	Drop One			
	Correct Answer: gained			
	Wrong Answer: lost			
	DropTwo			
	Correct Answer: negatively			
	Wrong Anwer: positively			
	Describera			
	DropThree			
	Correct Answer: lost			
	Wrong Answer: gained			

	DropFour Correct Answer: positively Wrong Answer: negatively	
Read More	https://openstax.org/books/chemistry-2e/pages/2-3-atomic-structure-and-symbolism	