Station1 Review Midterm: Matter

Identify which learning objectives you need to review before your midterm. ONLY do the last column after you've checked the answer key.

L can statement	Question that you	Only c	check one of the l	boxes to the right	YES.	Needs	NOPE.
	must answer	after y	ou've doe the qu	estion and checked it.	Got it.	review	Not yet.
1. I can define the following: atom, element, compound, mixture	Definitions: atom – smallest particle of matter that retains the properties of an element element –a substance that cannot be broken down into a simpler substance compound – two or more elements chemically combined in a fixed ratio mixture – two or more substances physically combined in a variable ratio						
	2 Atoms of 1 Elemer	ıt	2 Molecules of	1 Compound			
2. I can draw particle diagrams to represent an atom, an element, a molecule, a compound, a mixture	O C)					
	Mixture of 2 element	s ()	Mixture of 2 co	ompounds			
	Mixture of an element and a compound						
3. I can classify substances as a pure substance (element or compound) or as a mixture.	Put each of the follo Examples: $C_{12}H_{22}$ soda Element Fe H_2 Ar	owing exa O ₁₁ , NaC <u>Co</u> C ₁₂	mples into the cc Cl, Fe, salt water, <u>mpound</u> pH ₂₂ O ₁₁ NaCl CO ₂	orrect column. air, CO ₂ , H ₂ , Ar, <u>Mixture</u> salt water air soda			

I can statement	Question that you must answer	YES. Got it.	Needs review	NOPE. Not yet.
4. I can define homogeneous mixture and heterogeneous mixture in terms of particle distribution.	Definitions: homogeneous mixture – two or more substances physically combined with a uniform distribution of particles heterogeneous mixture– two or more substances physically combined with a non-uniform (clumpy) distribution of particles			
5. I can give an example of homogeneous and heterogeneous mixtures.	Two examples of homogeneous mixtures: a. brass b. a pitcher of Kool-Aid Two examples of heterogeneous mixtures: a. snickers bar b. soil			
6. I can classify a property as physical or chemical.	Write "P" for physical or "C" for chemical on the line provided.			
7. I can classify a change as physical or chemical.	Write "P" for physical or "C" for chemical on the line provided.			
8. In a particle diagram, I can distinguish between a physical change and a chemical change.	Substance A Circle the particle diagram that best represents Substance A after a physical change has occurred.			

I can statement	Question that you must answer	YES. Got it.	Needs review	NOPE. Not yet.
 9. I can determine how matter will be separated using filtration. 10. I can describe how matter can be 	When a mixture of sand, salt, sugar, and water is filtered, what passes through the filter? salt, sugar, and water Which physical property makes it possible to separate the			
separated using distillation.	difference in boiling points			
11. I can state which separation process (decanting, filtering, distilling, chromatography, or evaporating) is best for a given situation.	To separate a mixture of salt and water, the best method of separation would be <u>evaporation</u> . To separate a mixture of ethanol and water, the best method of separation would be <u>distillation</u> . To separate a mixture of food coloring dyes, the best method of separation would be <u>chromatography</u> . To separate a mixture of oil and water, the best method of separation would be <u>chromatography</u> .			
12. I can define allotrope. (diamond and graphite are examples)	Defintion: allotrope – different forms of the same element that possess different molecular structures			
13. I can state the differences between two allotropes of the same element.	Two allotropes of the same element have different molecular structures and therefore have different <a href="physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physical_physicad_physicad_physicad_physicad_physicad_physicad_physicad_physicad_physicad_physicad_physica</td> <td></td> <td></td> <td></td>			

Station 2 Review Midterm: Gases & phases of matter (subtopic within Matter unit)

Identify which learning objectives you need to review before your midterm. ONLY do the last column after you've checked the answer key.

I can statement	Question that you must answer	Only check one of the boxes to the right after you've doe the question and checked it.	YES. Got it.	Needs review	NOPE. Not yet.
1. I can state the 5 parts of the Kinetic Molecular Theory.	 The five parts of the five parts of the a. Gases consist of b. The size of the perturbative of the particles are colliding with the create pressure. d. Gas particles have a particles have a proportional to the proportional to the proportional to the properturbative of the propere				
2. I can define an ideal gas.	Definition: ideal gas –any gas Ideal gases are the Hydrogen and hel temperatures and				
3. I can state the conditions of pressure and temperature under which a gas will act "ideally".	A gas will act mos pressure and <u>high</u>				
4. I can state the two elements that act ideally most of the time.	The two elements <u>hydrogen</u>	that act ideally most of the time are&helium			
5. I can explain how pressure is created by a gas.	What causes gas n Collisions with th	nolecules to create pressure? ne walls of the container.			
6. I can state the relationship between pressure and volume for gases (assuming constant temperature).	At constant tempe volume <u>decreases</u>	rature, as the pressure on a gas increases, the			
7. I can state the relationship between temperature and volume for gases (assuming constant pressure).	At constant pressu volume <u>increases</u>	re, as the temperature on a gas increases, the			

	Question that ye	ou mu	ıst answer				YES.	Needs	NOPE.
I can statement						Got	review	Not	
							it.		yet.
8. I can state the In a fixed container (AKA "has constant volume), as the									
relationship between	temperature on	a gas							
temperature and									
pressure for gases	increases, the p	ressui	re <u>incr</u>	eases	_·				
(assuming constant									
volume).									
	Avogadro's Hy	pothe	sis says <u>tw</u>	o samples o	of an	ideal gas, if			
9. I can state	they have the sa	ime te	emperature	, pressure, a	and v	<u>olume, will</u>			
Avogadro's	contain the sam	e nun	nber of mo	lecules.					
Hypothesis.									
10. I can remember to	11		· 0.01		1 1 0 1				
10. I call temember to	A gas originally		ipies 2.3L	at 56°C and	1 101	.3 kPa. What			
using the Combined	will its volume	be at	100°C and	l 105.7 kPa'	?				
Gas Law to determine			2	5 T					
changes in V. P. or T			<i>L</i> .	5 L					
of a gas.									
	Draw a particle diagram to represent atoms of Li in each phase.								
11 I can use narticle									
diagrams to show the	Solid Liquid Gas								
arrangement and									
spacing of) (
atoms/molecules in			$ $ \circ	$\overline{}$		\bigcirc			
different phases.									
				0	\bigcirc	0			
12. I can compare			Solid	Liquic	1	Gas			
solids, liquids, and	Relative								
gases in terms of their	Kinetic	low		moderate	2	high			
relative kinetic	Energy								
molecular motion.		vihi	ations	vibration		vibration			
ability to completely	Molecular	onh	with the second	and rotat	ion	rotation and			
fill a container, ability	Motion		V		ion	translation			
to change shape.	Ability to								
	Completely	n	0	no		yes			
	Fill Any								
	Container								
	Ability to					7			
	Change	no	1	yes		yes			
	Shape								

Station 3 Vapor Pressure and Heating curves

Identify which learning objectives you need to review before your midterm. ONLY do the last column after you've checked the answer key.

Question that you must answer				NOPE.
I can statement		Got it.	review	Not vet.
7. I can indicate if a phase change is exothermic or endothermic.	For each phase change listed, indicate whether the change is exothermic or endothermic. fusion/melting ENDO solidification/freezing EXO condensation EXO vaporization/boiling ENDO sublimation ENDO deposition EXO			
8. Given a heating/cooling curve, I can determine the temperature at which a substance freezes/melts or condenses/vaporizes.	What is the boiling point of this substance? $113^{\circ}C$ What is the boiling point of this substance? $113^{\circ}C$			
9. Given a heating/cooling curve, I can determine which sections of the curve show changes in potential energy.	On the graph, circle the sections that show a change in potential energy.			
10. Given a heating/cooling curve, I can determine which sections of the curve show changes in kinetic energy.	(C) arrying (D) (C) arrying (D)			

Station 4 Heat & temperature with a review of math concepts

Identify which learning objectives you need to review before your midterm. ONLY do the last column after you've rotated to the next station

I can statement	Question that you must answer	Only check one of the boxes to the right after you've doe the question	YES. Got it.	Needs review	NOPE. Not yet.
1 Loon state the		and checked it.			
1. I can state the temperature at which	What is the freezing point of water in	^o C and K?			
water freezes in ^o C and K.	0ºC and 273K				
2. I can state the temperature at which	What is the melting point of water in	°C and K?			
water melts in ^o C and K.	0 ⁰ C and 273K				
3. I can state the temperature at which	What is the boiling point of water in ^C	PC and K?			
water vaporizes/boils in ^o C and K.	100 ⁰ C and 373K				
4. I can state the temperature at which	What is the condensing point of water	in ^o C and K?			
water condenses in °C and K.	100 ^o C and 373K				
	Which heat equation should be used in	n each of the following:			
	a. How much heat is needed to vapori	ze 100.0 g of water at			
5. I can use	$\mathbf{O} = \mathbf{m}\mathbf{H}_{\mathbf{v}}$				
determine which	2				
"heat" equation is	b. How much heat is needed to raise t	he temperature of 100.0 g			
needed for a given	of water by 35°C?				
problem.	Q=mCΔT				
	c. How much heat is needed to melt 1	00.0 g of ice at 0°C?			
	$Q = mH_f$				
6. I can solve heat	Solve each of the equations above (sh	ow work and answer here)			
equations given the	a. $(100) \times 2260 = 2260000$ b. $\Omega = (100)(4, 18)(35) = 14630$ L				
information on table	c. $(100)(334) = 33400J$				
Т.					
	<u>Definitions:</u> specific heat capacity – the amount of	f heat required to			
	increase the temperature of one gra	m of substance by 10C			
7. I can define specific heat	(or K)				
capacity, heat of	1				
fusion, heat of vaporization.	of substance at its melting point				
	heat of vaporization - the amount of one gram of substance at its boiling				

I can statementGot it.review Not yet.8. I can use the "heat" equations to solve for any given the other variables.How many grams of water can be heated by 15.0°C using 13,500 J of heat?Jiii Siii Siii Siii Siii Siii Siii Siii		Question that you must answer	YES.	Needs	NOPE.
Image: constraint of the second se	I can statement		Got	review	Not
8. I can use the "heat" equations to solve for any variable, if I am given the other variables.How many grams of water can be heated by $15.0^{\circ}C$ using $13,500 J$ of heat?9. I can determine the number of significant figures in a measurement.How many significant figures are there in 30.50 cm^2 How many significant figures are there in $400.0 \sec^2$ 4410. I can determine the answer to a math problem to the correct number of significant figures.To the correct number of significant figures, what is the answer to $5.93 \text{ mL} + 4.6 \text{ mL}^2$ To the correct number of significant figures, what is the answer to $5.93 \text{ cm}^2 + 4.6 \text{ cm}^2$ 27 cm^2 Image: the second secon			it.		yet.
solve for any variable, if 1 an given the other variables.1 takes 5210 J of heat to melt 50.0 g of ethanol at its melting point. What is the heat of fusion of ethanol? 104 J/g9. I can determine the number of significant figures in a measurement.How many significant figures are there in 30.00 cm? How many significant figures are there in 400.0 sec? 410. I can determine the answer to a math problem to the correct number of significant figures.To the correct number of significant figures, what is the answer to $5.93 \text{ mL} + 4.6 \text{ mL}$? To the correct number of significant figures, what is the answer to $5.93 \text{ mL} + 4.6 \text{ mL}$? To the correct number of significant figures, what is the answer to $5.93 \text{ mL} + 4.6 \text{ mL}$? To the correct number of significant figures, what is the answer to $5.93 \text{ mL} + 4.6 \text{ mL}$? To the correct number of significant figures, what is the answer to $5.93 \text{ mL} + 3.6 \text{ cm}$? 27 cm^2 11. I can convert numbers into scientific notation from standard notation.Convert $87.394, 000,000,000$ to scientific notation. 10^{13} Convert 0.000040934 to scientific notation. 10^{-6} 12. I can convert numbers into standard notation.Convert 5.8×10^9 to standard notation. $0.000 043$ 13. I can convert metric units by using "Kmg Henry died by drinking chocolate milk".9.3 km = ? m $9.38 \text{ mL} = ?kL$ 0.039983 kL	8. I can use the "heat" equations to	How many grams of water can be heated by 15.0°C using 13,500 J of heat?			
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9. I can determine the number of significant figures in a measurement.How many significant figures are there in 30.50 cm? 	variables.	104 J/g			
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10. I can determine the answer to a math problem to the correct number of 		To the correct number of significant figures, what is the answer to			
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