## Final Exam Review (1 of 4)

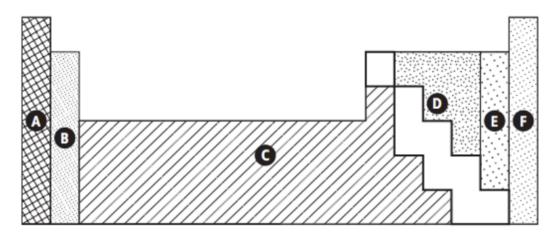
Name:
Date:
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## Lab Skills

1.	List th	ne 6 steps of the scientific method.
	i.	
	ii.	
	iii.	
	iv.	
	v.	
	vi.	
2.	Identi	fy the following as a qualitative or quantitative observation:
	i.	5 cm high
	ii.	Moves 5 km/hr
	iii.	Colourless
	iv.	Green and blue
	v.	Feels slippery
	vi.	Tastes salty
3.	give s	lant two apple trees in your backyard. They get the same amount of rain and sunlight. You pecial fertilizer to only one of the apple trees to see if it helps it grow faster. Identify the endent and dependent variable in your experiment.  Independent:
	0	Dependent:
4.	Identi	fy the following as true or false.
	You	u may eat and drink during a lab as long as you keep the food clean.
	Go	ggles must be kept in place until everybody has finished the lab.
	The	e teacher appreciates your imaginative additions to the lab; feel free to improvise.
	If a	chemical gets in your eye, you must rinse your eye under the faucet in the sink.
	Mo	st people will not be calm enough to remember to stop, drop and roll if their clothing is on fire.
	Alv	vays cut toward <i>yourself</i> when using a knife or razor blade.
	You	ur hands <i>cannot</i> be wet if you are handling electrical cords.

## Atomic Theory

1. Use the periodic table below to help answer these questions:



a.	Helium:	
a.	HCHUIII.	

b. Nitrogen: \_\_\_\_\_

c. Vanadium: \_\_\_\_\_

d. Palladium: \_\_\_\_\_

e. Noble gases: \_\_\_\_\_

£	Magnagium	
ı.	Magnesium:	

g. Most reactive: \_\_\_\_\_

h. Least reactive: \_\_\_\_\_

i. Halogens: \_\_\_\_\_

j. Transition metals: \_\_\_\_\_

2. Complete the following table:

Element	Element	Atomic	Atomic	# of	# of	# of
Name	Symbol	Number	Mass	protons	neutrons	electrons
	Ti					
		35				
	Au					
						83
					8	

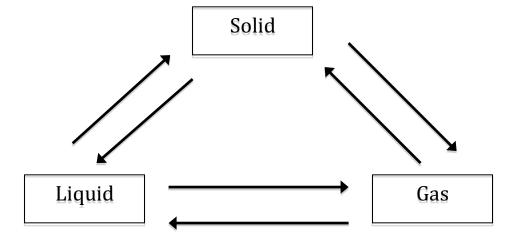
3. Define a subatomic particle:

4. What does the atomic number represent?

5. What does the atomic mass measure?

	aw tl	he Bohr diagram for the following elements: Hydrogen			Oxygen
	7/11/2				
Ch	orine	2	Sodium		Neon
7. Cl		the following as an eleme Water:			: Oxygen:
		Silver:		F	las different properties throughout:
	c)	Made up of only one kind	of atom:	_	
			h)	N	Magnesium:
	d)	Spaghetti sauce:	i)	Is	s a pure substance and is made up of more
	e)	Can be heterogeneous or	homogeneous:	t!	han one kind of atom:
			j)	C	CO <sub>2</sub> :

8. Label the following arrows for the phase change and indicate if heat is gained (+) or lost (-) in the diagram below:



9.	In the	Kinetic Molecular Theory:			
	i.	All matter is made up of			
	ii.	There is between particles.			
	iii.	Particles are constantly			
	iv.	makes particles move.			
	v.	How does the space between particles change as energy/heat is added? Explain your answer.			
	vi.	How does the space between particles change as energy/heat is lost? Explain your answer.			
	vii.	Define thermal expansion and thermal contraction. In your answer, provide an example of			
		each.			