Na	me Period Date
	1 <sup>st</sup> Semester Final Exam Review WebQuest
<u>ht</u>	p://www.chem4kids.com/files/elem_pertable.html
1.	Why are the elements placed in specific places on the Periodic Table?
2.	Periods are that run from to
3.	Elements in the same period have the same
	Every element in the first period has shell for its Every element in the cond period has for its See the pattern?
5.	Groups arethat run fromto
6.	The elements of a group have the same number of in their shell.
7. —	Every element in group one has electron in its outer shell. Every element in group two has electrons in its outer shell.
<u>ht</u>	p://www.chem4kids.com/files/elem_noblegas.html
8.	Click on Noble Gases (left bar) and answer these questions.
a.	What is the group number?
b.	Why were these gases considered to be inert or stable?
<u>ht</u>	p://www.qacps.k12.md.us/qhs/teachers/WeedonD/Atoms%20page%203.htm
1.	The basic unit of all matter is the
2.	All atoms are made of three types of particles,, and
3.	Theis used to identify an atom.
4.	Protons are found in theof atoms. They have acharge.
5.	What happens when the number of protons in an atom changes?
6.	Where are neutrons found in an atom?
7.	How can you calculate the number of neutrons in an atom?
8.	What is the charge on an electron?

9. How can you calculate the number of electrons in an atom?

10. An ato	m can gain or lose electrons	to become an	
11. The rer	noval of an electron results in	n acharge.	
12. THINK! be?		I from magnesium, what wo	uld the charge on magnesium
13. Atoms t	hat are involved in bonding a	re called	electrons.
Go To <u>http://</u>	www.chem.purdue.edu/gchelp	/atoms/elements.html	
Fill in below compounds	e visual differences between boxes with things you notice, and mixtures the animations and look at the	e about what you can see in	the "microscopic views" of elements,
	ELEMENTS	COMPOUNDS	MIXTURES

Go To: <a href="http://www.chem4kids.com/files/matter\_mixture.html">http://www.chem4kids.com/files/matter\_mixture.html</a>

- 1. What does it mean that mixtures are about physical properties and not chemical properties?
- 2. What are two ways you might separate a mixture of sand and water? a.
  - b.

## http://www.funtrivia.com/playquiz/quiz148865110c980.html

Take the quiz and record your answers below.

ANSWERS				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

The Following Questions Contain the Links you need. Click on the question to go to the website. Green questions go with the links that came before them.

1. How is a molecule different tha	n an atom?
2. What are the 4 states of matter	?
3. Thermal energy is the	kinetic energy of all of the particles in a substance?
4. Temperature is the	kinetic energy of all of the particles in a substance?

5. How is thermal energy different than temperature?						
6. What is heat?						
7. So, heat moves through a system from	_ objects to	objects.				
8. What must be added to the system to move from a solid to a liquid, and then to a gas?						
9. What must be removed from the system to move from a gas to a liquid and then to a solid?						
10. How does energy effect molecular movement of matter?						
11. What is energy in motion called?						
12. What are some examples of kinetic energy?						
13. What is potential energy?						
14. Why are gravitational energy and elastic energy examples of potential energy?						
15. Give an example of how chemical energy is potential energy.						
<ul><li>16. What is the law of conservation of energy?</li><li>17. List the different forms of energy.</li></ul>						
18. Give 2 examples of different energy transformation	c c					
10. Give 2 examples of unferent energy transformation						