me _		Date	Period	Page
	Chapter Four Rea	ading Study	<u>Guide</u>	
1.	An atom is made up of	,,		and
2.	Protons and neutrons are in the center or	r	of the a	tom.
3.	are in regions		the nuc	eleus.
4.	A proton has a	_ charge.		
5.	A electron has a	charge.		
6.	A neutron has charge.			
7.	The charge on a proton and electron are		the same size	but opposite.
8.	Another way of saying this is that the sar another and cl		_	OI
9.	The electron sh where the electron is most likely to be.	nows the region		the nucleus
10.	You can see evidence of repelling each other when you make	and	electricity.	attracting and
11.	Rubbing a and stickir paper is also evidence that			
12.	The charged balloon and the j	area of the paper moves to	er is the balloon.	to th
13.	The table shows all the known universe is made from.	ne	that everyth	ning in the
14.	Each contains inform	mation about a d	lifferent	·

16. Ansubstance.		
	is a substance made up of all the same type	of
18. The	mass of an element is based on the	of the
atoms that make up tl	he	
19. The	of the proton and neutron are about the _	but
the mass of the	is much smaller.	
20. For any	in the periodic table, the number of	in an
atom always	the number of	·
21. Atoms of the	element with nu	imbers of neutrons
are called	of that element.	
22. The	mass given in the periodic table is an	of the
	otopes of an element.	or the
	of the first elements, the number of htly greater than the number of	
either equal to or slig	htly greater than the number of but the	·
either equal to or slig 24. All 25. Electrons surroun	htly greater than the number of but the value atoms have one but the value defined the of an atom in	vast majority have 0
either equal to or slig 24. All 25. Electrons surroun making atoms	htly greater than the number of but the value.	vast majority have 0 dimensions
either equal to or slig 24. All 25. Electrons surroun making atoms 26. These regions are	htly greater than the number of but the value atoms have one but the value the of an atom in	vast majority have 0 dimensions ich contains both
either equal to or slig 24. All 25. Electrons surroun making atoms 26. These regions are 27. The 28. The	htly greater than the number of but the value atoms have one but the value the of an atom in e called is represented by a dot in the center where the property of the property	vast majority have 0 dimensions cich contains both
either equal to or slig 24. All 25. Electrons surroun making atoms 26. These regions are 27. The 28. The	atoms have one but the second depends on the second of an atom in but the second of a sec	vast majority have 0 dimensions ich contains both
either equal to or slig 24. All 25. Electrons surroun making atoms 26. These regions are 27. The 28. The 29. Since	atoms have one but the second dependence of but the second dependence of a surrounding the nucleus region in the levels.	vast majority have 0 dimensions ich contains both

31. Energy Levels can hold how many electrons? 1st	What element ends the level?
2nd	
3rd	
32. The going across the periodic table as	re called
33. The going up and down are cal	led or
34. Number of energy levels in each period- The atoms in the first period have electrons in	energy level.
The atoms in the second period have electrons in	energy levels.
The atoms in the third period have electrons in	energy levels.
The atoms in the fourth period have electrons in	energy levels.
35. If you look at the atoms in a in their	_, you will see that they have the same energy level.
36. Electrons in this level are called	electrons.
37. Valence are important and are responsible for many of the the atom.	
and are responsible for many of the	e characteristic of
and are responsible for many of the atom. 38. In a bond, electrons from	e characteristic of each atom are attracted or
and are responsible for many of the the atom. 38. In a bond, electrons from by atoms.	e characteristic of each atom are attracted or d a
and are responsible for many of the the atom. 38. In a bond, electrons from by atoms. 39. Two or more atoms covalently bonded are calle 40. Once bonded, the hydrogen	e characteristic of each atom are attracted or d a is more than
and are responsible for many of the the atom. 38. In a bond, electrons from by atoms. 39. Two or more atoms covalently bonded are calle 40. Once bonded, the hydrogen the individual hydrogen atoms. 41. Atoms will bond to one are	e characteristic of each atom are attracted or d a is more than nother until each atom's
and are responsible for many of the the atom. 38. In a bond, electrons from by atoms. 39. Two or more atoms covalently bonded are calle 40. Once bonded, the hydrogen the individual hydrogen atoms. 41. Atoms will bond to one ar energy level is full.	e characteristic of each atom are attracted or d a is more than nother until each atom's ed forming a bond.
and are responsible for many of the the atom. 38. In a bond, electrons from by atoms. 39. Two or more atoms covalently bonded are calle 40. Once bonded, the hydrogen the individual hydrogen atoms. 41. Atoms will bond to one ar energy level is full. 42. Two from each atom are share	e characteristic of each atom are attracted or d a is more than nother until each atom's ed forming a bond bond.

	f an electron leaving it with o	nly electrons but
48. This makes sod	ium a ion with	a charge of
49. Oppositely cha	ged attract each other form	ming an bor
50. When ions form	n, atoms or el	ectrons until their
51. The	ions are morethat	t the individual atoms were.