DATE	

CLASS

Chapter 17

STUDY GUIDE Structure of the Atom

Look for the word <u>model</u> in the word search. Write the missing words in the blanks in the following paragraph about the model of the atom. Then look for these words in the word search.

The model of the atom	includes a positively charged center, or	which contains two
particles, the	and the	The number of protons is the
	of an atom. A third particle, the	, is found in a
outside the nucleus. An	in the electro	n cloud is similar to a shelf on a refrigerator.
The	of an electron is so small that it i	s impossible to describe exactly where it is in an
atom.		

K	L	W	Α	Ν	Ε	0	Ν	Ι	W	R	U
Ν	E	U	Т	R	0	Ν	A	Z	0	S	Ν
A	D	Ν	W	S	L	R	F	L	A	Y	Ε
L	0	0	Ε	D	U	J	Т	0	Н	Μ	G
С	Μ	Т	L	R	R	E	R	С	С	B	Y
Η	A	0	R	E	G	0	L	A	E	0	X
Е	G	R	Р	S	Μ	Y	L	С	Н	L	0
Μ	Ι	Р	B	A	Т	С	L	0	U	D	E
Ι	0	V	S	0	Ι	D	A	Ε	L	Ν	Ι
С	R	S	Q	U	Ν	S	Ι	L	V	E	R
A	Т	0	Μ	Ι	С	Ν	U	М	B	E	R
L	Р	Ε	Ν	Ι	R	0	L	Н	С	S	L

REINFORCEMENT **Structure of the Atom**

Use the clues to complete the puzzle.

Across

- Scientist who developed the planetary model of the 3. atom
- 7. Element 105
- 11. Region surrounding the nucleus which is occupied by electrons
- 13. Atomic number of fluorine (spelled out)
- 14. Center of atom
- 15. Symbol for sodium
- 16. Symbol for silver
- 18. Fe is the symbol.
- 21. Name of element used in fluorescent signs
- 22. Atom of an element with a different number of neutrons
- 23. Sum of protons and neutrons
- 25. Only element with atoms which do not have neutrons

Down

Chapter 17

- 1. Element often made into electrical wire
- 2. Number of protons in an atom
- 4. Name of element whose symbol is Ru
- 5. Negatively charged particle
- 6. Mixture of mostly nitrogen and oxygen
- 8. 1/12 the mass of a carbon-12 atom
- 9. Helps us understand something that we cannot see directly
- 10. These are like shelves where electrons can be found.
- 12. Equal in number to the number of protons
- 14. A particle with approximately the same mass as a proton
- 17. Element used in balloons
- 19. Element name of radioactive gas that can accumulate in houses
- 20. Positively charged particle in nucleus
- 24. The building block of matter

