INSTRUCTIONS

① Use your notes to complete the following statements.

② Find and circle these words on the Word Search Puzzle.

1. All matter is made up of submicroscopic particles called __?__.

2. At the centre of each atom is a __?__, with two kinds of particles: the positively charged __?__ and the uncharged __?__. Protons do not move from the nucleus when an atom becomes charged.

3. A cloud of negatively charged particles called __?__ surrounds the nucleus. An electron has the same amount of charge as a proton, but the charge is __?__. When atoms become electrically __?__, only the electrons move from atom to atom.

4. __?__ charges repel each other; __?__ charges attract each other. Furthermore, charged objects will attract some __?__ objects.

5. In some elements, such as copper, the nucleus has a __?__ attraction for its electrons than in others, and electrons are able to move freely from atom to atom. In other elements, such as sulfur, the nucleus has a __?__ attraction for its electrons, and the electrons do not move.

6. In each atom, the __?__ of electrons surrounding the nucleus __?__ the number of protons in the nucleus. A single atom is always electrically neutral.

7. If an atom __?__ an extra electron, the net charge on the atom is negative, and is called a negative ion or __?__. If an atom __?__ an electron, the net charge on the atom is positive, and it is called a positive ion or __?__ .

☞ NOTE ☜

If you cannot find a word horizontally, vertically, or diagonally, you probably have an incorrect answer for the statement!

A	C	A	T	I	O	N	B	O	Y	G	P	O	E	M
Y	L	N	F	E	Q	U	A	L	S	P	B	N	O	P
G	A	I	N	S	L	M	J	V	P	R	O	T	O	N
R	V	O	E	I	P	B	Y	A	M	Y	A	E	H	E
W	Q	N	L	I	K	E	N	Q	R	C	Q	S	P	U
M	X	U	E	J	J	R	L	O	O	H	V	T	A	T
O	N	U	C	L	E	U	S	U	W	A	U	R	X	R
W	E	H	T	M	S	N	C	N	B	R	X	O	C	A
O	U	K	R	S	F	L	Z	L	K	G	V	N	A	L
T	T	X	O	P	P	O	S	I	T	E	D	G	K	N
L	R	Y	N	J	Y	S	H	K	F	D	I	E	X	J
S	O	W	S	N	K	E	W	E	A	K	E	R	K	U
F	N	N	U	X	X	S	Z	R	Z	B	M	N	M	G