

Standard: #2-1
ATOMIC STRUCTURE

I. Sub atomic structure

a. Describe the properties of all subatomic particles.

II. How does an atom acquires mass.

a. Understand why atoms of the same element have different masses.

III. How does an atom acquires a charge.

a. Understand how an atom acquires a charge.

b. Understand why an atom acquires a charge.

c. Be able to determine an atom's most common charge and why. (octet rule)

SYMBOL	ATOMIC NUMBER	MASS NUMBER	0_1n	e^-	Charge	P^+
O	8	16	8	8	0	8
F	9	18	9	9	0	9
S	16	24	8	17	-1	16
U	92	173	80	93	+1	92
Am	95	209	114	95	0	95
O	8	16	8	9	-1	8
O	8	18	10	8	0	8
O	8	12	4	7	+1	8
Al	13	25	12	13	0	13