

# SCS CHEMISTRY SUMMER MEMORIZATION:

## Chemistry I (all sections)

Memorize the following list for a quiz at the start of school. This builds upon the symbols previously learned in 8<sup>th</sup> and 9<sup>th</sup> grades.

### 1<sup>ST</sup> year Chemistry Memorization- 60 COMMON ELEMENT SYMBOLS

Al	aluminum	Ga	gallium	K	potassium
Sb	antimony	Ge	germanium	Ra	radium
Ar	argon	Au	gold	Rn	radon
As	arsenic	He	helium	Rb	rubidium
At	astatine	H	hydrogen	Sc	scandium
Ba	barium	I	iodine	Se	selenium
Be	beryllium	Fe	iron	Si	silicon
Bi	bismuth	Kr	krypton	Ag	silver
B	boron	Pb	lead	Na	sodium
Br	bromine	Li	lithium	Sr	strontium
Cd	cadmium	Mg	magnesium	S	sulfur
Ca	calcium	Mn	manganese	Te	tellurium
C	carbon	Hg	mercury	Sn	tin
Cs	cesium	Ne	neon	Ti	titanium
Cl	chlorine	Ni	nickel	W	tungsten
Cr	chromium	N	nitrogen	U	uranium
Co	cobalt	O	oxygen	V	vanadium
Cu	copper	P	phosphorus	Xe	xenon
F	fluorine	Pt	platinum	Zn	zinc
Fr	francium	Pu	plutonium	Zr	zirconium

The following ions will be assigned for memorization during the first nine-weeks of school. If you wish to begin working on them over the summer, you are welcome to do so.

### POLYATOMIC IONS:

#### CATIONS

Ammonium $\text{NH}_4^+$ Hydronium $\text{H}_3\text{O}^+$
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#### ANIONS

Negative 1 charge	Negative 2	Negative 3
Nitrate $\text{NO}_3^-$	Peroxide $\text{O}_2^{-2}$	Phosphate $\text{PO}_4^{-3}$
Nitrite $\text{NO}_2^-$	Sulfate $\text{SO}_4^{-2}$	Phosphite $\text{PO}_3^{-3}$
Hydroxide $\text{OH}^-$	Sulfite $\text{SO}_3^{-2}$	
Permanganate $\text{MnO}_4^-$	Carbonate $\text{CO}_3^{-2}$	
Acetate $\text{C}_2\text{H}_3\text{O}_2^-$ $\text{CH}_3\text{COO}^-$	Chromate $\text{CrO}_4^{-2}$	
Hydrogen Carbonate $\text{HCO}_3^-$	Dichromate $\text{Cr}_2\text{O}_7^{-2}$	
Perchlorate $\text{ClO}_4^-$	Oxalate $\text{C}_2\text{O}_4^{-2}$	
Chlorate $\text{ClO}_3^-$		
Chlorite $\text{ClO}_2^-$		
Hypochlorite $\text{ClO}^-$		
Iodate $\text{IO}_3^-$		
Cyanide $\text{CN}^-$		