

Chemistry Summer Assignment

Welcome to Chemistry at MND!

Chemistry has its own language in symbols and formulas. Your success in the course is dependent on your knowledge of the symbols of the elements and ions that will be used throughout the school year. It is important that you memorize these symbols and ions. You will encounter quizzes early in the year based on this study sheet.

You might make flashcards to help you memorize the proper spelling of the elements and ions and their correct formulas with proper charges. Study with a friend or family member. Learning is easier when you say it out loud and write it down often. Make a list of the ions or elements and see if you can get all the symbols correct. Then make a list of the symbols and see if you can spell their names correctly. The more often you work the list, the easier it will be to memorize them all.

To help you memorize the charges of the various ions, refer to periodic table provided that illustrates how elements within a given group in the periodic table all have the same charge. Trends exist in the relationship between the location of an element within the periodic table (specifically its group number) and the charge of an ion formed from that element. These trends are based on the principles of valence electrons and the octet rule, both of which you will learn more about in Chemistry class. Exceptions to this trend include the transition metals, elements in Group 14, as well as hydrogen.

Your Chemistry teacher will expect you to be able to give the correct spelling given the symbol or the correct symbol given the name. Here is your first chance to earn an "A" in Chemistry.

If you have any questions concerning this assignment email any of the Chemistry teachers below.

Have a good summer. We look forward to having you in class.

Mrs. Higgins ahiggins@mndhs.org

Common Elements

Aluminum	Al	Lead	Pb			
Argon	Ar	Lithium	Li			
Barium	arium Ba		Mg			
Beryllium	Ве	Manganese	Mn			
Boron	В	Mercury	Hg			
Bromine	Br	Neon	Ne			
Cadmium	Cd	Nickel	Ni			
Calcium	cium Ca 1		Ν			
Carbon	С	Oxygen	0			
Chlorine	Cl	Phosphorus	Р			
Chromium	Cr	Potassium	K			
Cobalt	Со	Silicon	Si			
Copper	Cu	Silver	Ag			
Fluorine	F	Sodium	Na			
Helium	He	Strontium	Sr			
Hydrogen	Н	Sulfur	S			
lodine	1	Tin	Sn			
Iron	Fe	Zinc	Zn			

dido	Be ²⁺											N ³⁻	O ² -	F1-
Bhum	beryfilum											nitride	oxide	fluoride
Na+	Mg ²⁺									Al ³⁺		P3- phosphide	S2- sulfde	CI1- chlorine
K+ potassium	Ca ²⁺		Cr3+	Mn ²⁺	Fe ²⁺ iron III	Co ²⁺	Ni ²⁺ rickel II	Cu ²⁺	Zn ²⁺					Br ¹⁻
	Sr ²⁺ strontum							Ag+	Cd ²⁺		Sn ²⁺ tn II Sn ⁴⁺ tn IV			[1- iodide
	Ba ²⁺			,					C .		Pb ²⁺ lead II Pb ⁴⁺ lead IV			