Mrs. Wade Physical Science Essentials March 17 - April 24

Date Assigned	Assignment	Resources to Use	Date Due
3-17 to 4- 20-2020	Complete all assignments and send pictures to email address: jwade@fairborn.k12.oh.us ● · The Atoms Family – Due March 20th ● · Periodic Table Cutouts – Due March 24th ● · Periodic Table Pkt #1 – Due March 31st ● · Show What You Know – Due April 6th ● · Ohio Energy Project Survey- Due ASAP	Four of these items were sent home in a folder on March 16th along with a periodic table. ● The Ohio Energy Project assignment was an online assignment. If you are having issues with this, let me know.	Listed under assignments. If you have not completed these assignments, now is the time.

Mrs. Wade Physical Science Essentials March 17 - April 24

Date Assigned	Assignment	Resources to Use	Date Due
4-21-2020 - 4-23-2020	Naming Compounds worksheet	Reading Outlined information – “Naming Compounds”	4-22-2020 and 4-23-2020
4-23-2020	Google Classroom Meeting online at 1015-1045 am	·	
4-24-2020	ALL WORK DUE	SEE ABOVE	4-24-2020

Ionic, Covalent and Polyatomic Bonding
Due April 22 & 23, 2020

Name: _____

Complete the following using the ***Naming Compounds*** sheet on Google Classroom.

Metal or Non-metals? Write an "**M"** if the element is a Metal. Write an **"N**" if it is a non-metal.	Ionic or Covalent? **Ionic Bond** is a Metal and non-metal bonded together **Covalent Bond** is 2 non-metals together.	Define these Greek Prefixes See Chart on "Naming Compounds" Sheet	Name These Ionic Compounds Use the information on the "Naming Compounds" Sheet Hint: See special information for Oxygen on the top-right side of the sheet.

M N Iron Oxide ***M N*** Barium Chloride Carbon Dioxide Magnesium Oxide Aluminum Fluoride Nitrogen Tribromide Chromium Fluoride Potassium Oxide	**Iron Oxide** Ionic **Barium Chloride** _____ **Carbon Dioxide** _____ **Magnesium Oxide** _____ **Aluminum Fluoride** _____ **Nitrogen Tribromide** _____	**Penta = _5___** **Nona = _____** **Mona = _____** **Octa = _____** **Tri = _____** **Tetra = _____** **Hexa = _____** **Hepta = _____** **Deca = _____** **Di = _____**	MgF_2 Magnesium Fluor- ***ide*** Li_2O Lithium Ox- _____ NaCl Sodium Chlor- _____ K_2O Potassium Ox-_____ CaS __***Calcium*** Sul-__***ide*** BeI_2 _____ Iod-_____ $AlBr_3$ _____ Bro- _____ CaF_2 ***Calcium DiFluoride*** MgO _____ _____ LiCl _____ _____

Naming Compounds
Due April 23 & 24, 2020

Name _____

Match the bonded element with its name.		Answers here:
1. CO_2	A. Carbon monoxide	1. _____
2. C_2O_4	B. Carbon dioxide	2. _____
3. C_3O^5	C. Dicarbon monoxide	3. _____
4. CO	D. Tricarbon pentoxide	4. _____
5. C_2O	E. Dicarbon tetroxide	5. _____

Name These Covalent Compounds

Si_2O_3 Disilicone ***tri*** oxide

N_3Cl_4 _____ nitrogen tetrachloride

SO_2 Sulfur _____ oxide

PO_5 Phosphorous _____ ox ___

Polyatomic Ions

Name _____

Directions: Use the "Naming Compounds" sheet to complete the following tasks:

Hints: 1. Polyatomic compounds are 3 or more elements bonded.

2. O_2 is peroxide and can make polyatomic compounds with only 2 elements!

3. O_2 with a non-metal is *dioxide.*

4. O_2 with a metal or Hydrogen is *peroxide.*

Use the Polyatomic Ion Chart to name these Polyatomic Ions:	Name these Polyatomic Compounds (Remember - no prefixes!)	
HCO_3 -1 *Hydrogen carbonate*	$CaSO_4$ Calcium _____	Word bank Potassium Sulfide Ammonium Nitrate Nitrate
SO_4 2- _____	K_2CO_3 _____ carbonate	
O_2 2- _____	$CuNO_3$ Copper (1) _____	
NO_3 1- _____	NH_4Cl _____ chloride	
NH_4 + _____	$Mg(NO_3)_2$ Magnesium _____	
CrO_4 2- _____		

Classify and Name these Compounds		
	Ionic, Covalent or Polyatomic	**Name**
1.	$BaCl_2$ ***Ionic***	***Barium Chloride***
2.	CO _____	_____
3.	Ag_2O _____	_____
4.	SO_4 _____	_____
5.	K_2SO_4 _____	_____

Remember: Use the chart for this assignment, it is very helpful!