

MONDAY, FEBRUARY 4th

DO NOW

- In your notebooks, to be checked, solve this problem...

There are 12 Atomic Mass Units in 1 Atom of Carbon-12 and 1 Atomic Mass Unit in 1 Dalton. These are units of Atomic Mass!

Know:

$$12amu = 1^{12}C \quad 1amu = 1Da$$

Asked: How many Daltons are in 12 atoms of Carbon-12?

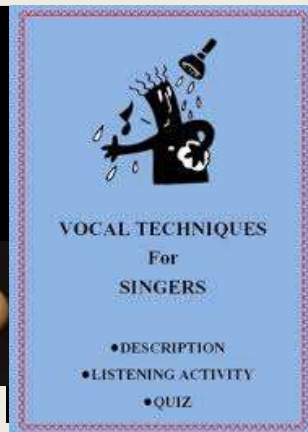
TODAY'S PLAN

1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!
 - Today's **QP** = LIST and SKETCH 3 things you did during all of these SNOW DAYS and then WRITE DOWN all of the terms in the GREEN BOXES on Pg. 181, 193, & 213!
2. Open books, **WORK** on today's **AO!**
3. ***HW** = Finish Volab Vocab Terms!

TODAY'S ACADEMIC OBJECTIVE

Today you will **PREPARE** yourselves to **TRAVEL** farther into the Atom by **ASSIMILATING** the lexicon related to Chemical **REACTIONS!**

SCIENCE QUIZ ALERT



- Students, listen UP!!!
 - We will be having **VOCAL QUIZ** soon to help us LEARN the Chemical Symbols for some COMMON Chemical Elements!
 - This quiz will require you to STUDY your Periodic Tables!
 - You are responsible for learning the NAME that goes with these 12 Chemical Element SYMBOLS!
 - Mn, U, W, Pt, Ag, Au, Hg, Sn, Pb, I, Kr, Rn!

A periodic table titled "PERIODIC TABLE: ELEMENT NAME ORIGINS". The table is color-coded and includes a legend for element name origins.A diagram showing the atomic number, chemical symbol, chemical name, and atomic mass for Magnesium (Mg). The diagram is a yellow box with a red border. It contains the following information:

12	→	ATOMIC NUMBER
Mg	→	CHEMICAL SYMBOL
Magnesium	→	CHEMICAL NAME
24.305	→	ATOMIC MASS

SCIENCE QUIZ ALERT



VOCAL TECHNIQUES

Periodic Table of the Elements

1 H Hydrogen 1.008																	18 He Helium 4.003
3 Li Lithium 6.941	4 Be Beryllium 9.012											5 B Boron 10.811	6 C Carbon 12.011	7 N Nitrogen 14.007	8 O Oxygen 15.999	9 F Fluorine 18.998	10 Ne Neon 20.180
11 Na Sodium 22.990	12 Mg Magnesium 24.305											13 Al Aluminum 26.982	14 Si Silicon 28.086	15 P Phosphorus 30.974	16 S Sulfur 32.066	17 Cl Chlorine 35.453	18 Ar Argon 39.948
19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.867	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.38	31 Ga Gallium 69.723	32 Ge Germanium 72.643	33 As Arsenic 74.922	34 Se Selenium 78.971	35 Br Bromine 79.904	36 Kr Krypton 83.798
37 Rb Rubidium 84.468	38 Sr Strontium 87.62	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.94	43 Tc Technetium 98.907	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.906	46 Pd Palladium 106.42	47 Ag Silver 107.868	48 Cd Cadmium 112.414	49 In Indium 114.818	50 Sn Tin 118.710	51 Sb Antimony 121.760	52 Te Tellurium 127.6	53 I Iodine 126.905	54 Xe Xenon 131.294
55 Cs Cesium 132.905	56 Ba Barium 137.328	57-71 Lanthanides	72 Hf Hafnium 178.49	73 Ta Tantalum 180.948	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.227	78 Pt Platinum 195.085	79 Au Gold 196.967	80 Hg Mercury 200.592	81 Tl Thallium 204.383	82 Pb Lead 207.2	83 Bi Bismuth 208.980	84 Po Polonium [209]	85 At Astatine [209]	86 Rn Radon 222.018
87 Fr Francium 223.020	88 Ra Radium 226.025	89-103 Actinides	104 Rf Rutherfordium [261]	105 Db Dubnium [262]	106 Sg Seaborgium [266]	107 Bh Bohrium [264]	108 Hs Hassium [269]	109 Mt Meitnerium [268]	110 Ds Darmstadtium [269]	111 Rg Roentgenium [272]	112 Cn Copernicium [277]	113 Uut Ununtrium unknown	114 Fl Flerovium [289]	115 Uup Ununpentium unknown	116 Lv Livermorium [293]	117 Uus Ununseptium unknown	118 Uuo Ununoctium unknown

57 La Lanthanum 138.905	58 Ce Cerium 140.116	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.242	61 Pm Promethium 144.913	62 Sm Samarium 150.36	63 Eu Europium 151.964	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.500	67 Ho Holmium 164.930	68 Er Erbium 167.259	69 Tm Thulium 168.934	70 Yb Ytterbium 173.055	71 Lu Lutetium 174.967
89 Ac Actinium 227.028	90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium 237.048	94 Pu Plutonium 244.064	95 Am Americium 243.061	96 Cm Curium 247.070	97 Bk Berkelium 247.070	98 Cf Californium 251.080	99 Es Einsteinium [254]	100 Fm Fermium 257.095	101 Md Mendelevium 258.1	102 No Nobelium 259.101	103 Lr Lawrencium [262]

SCIENCE QUIZ ALERT



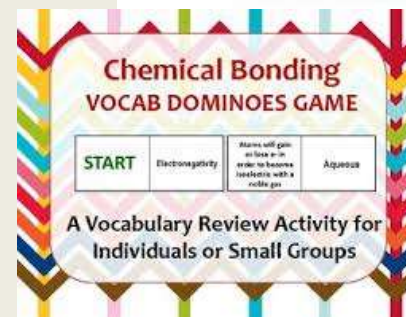
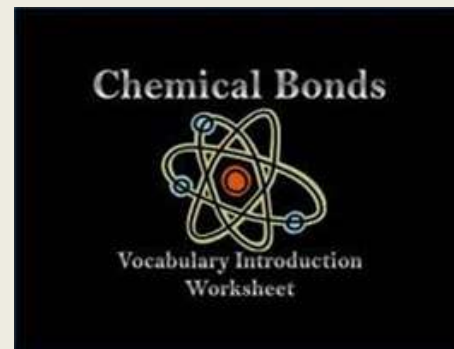
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Vocab Lab - Pg. 181 AND Pg. 193 AND Pg. 213

- 1. Students, LISTEN UP UP UP!
 - There are **18 (EIGHTEEN)** vocabulary terms that you **MUST** define, using the **GLOSSARY** of your book, to get full HW credit!
 - Be sure to NUMBER your terms for when I come and check them! 😊
 - **NOTE!** There are **TWO (2)** BONUS Terms not listed that you must also DEFINE!
 - Compound
 - Solubility



TUESDAY, FEBRUARY 5th

DO NOW

Know: The Periodic Table holds a large amount of information about the Chemical Elements, such as each one's unique properties

Asked: Which set of Elements contains an Element with a property the others lack?

A: Zn, Cd, Hg, Cn

B: B, Si, Ge, As, H

C: All of the above

TODAY'S PLAN

1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!
 - Today's **QP** = LIST and SKETCH 20 different things that can be COMBINED, FUSED, or BONDED together, and then DRAW the "Water Molecule" on Pg. 182 of your books!
2. Open books, **WORK** on today's **AO!**
3. ***HW** = Read & Do Pg. 180 - 183!

TODAY'S ACADEMIC OBJECTIVE

Today you will **OVERSEE** Chemical Elements reacting in order to **PREDICT** when and how **REACTIONS** occur in **NATURE!**

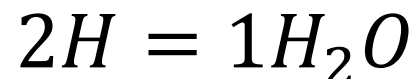
WEDNESDAY, FEBRUARY 6th

DO NOW

- In your notebooks, to be checked, solve this problem...

There are 2 Hydrogen in 1 Water Molecule (H_2O). These are units of Chemistry!

Know:



Asked: How many atoms of Hydrogen are in 48 Water Molecules?

TODAY'S PLAN

1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!
 - Today's **QP** = Using your Periodic Tables CREATE 5 words using Chemical Element Symbols and then REDEFINE the term "Chemical Bond"!
2. Open books, **WORK** on today's **AO**!
3. ***HW** = Study for VOCAL QUIZ!

TODAY'S ACADEMIC OBJECTIVE

Today you will **OVERSEE** Chemical Elements reacting in order to **PREDICT** when and how **REACTIONS** occur in **NATURE**!

THURSDAY, FEBRUARY 7th

DO NOW

Know: This equation shows the formation of Carbon Dioxide: $C + O_2 \rightarrow CO_2$

Asked: Which statement **best** describes the chemicals in the reaction?

A: C and O₂ are products because they are uncombined

B: C and O₂ are reactants

C: C and CO₂ are products because they contain Carbon

TODAY'S PLAN

1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!

- Today's **QP** = LIST the NAME, CHEMICAL SYMBOL, AND whether it's a "Metal", "Nonmetal", or "Metalloid" for each of the 12 Chemical Elements on today's VOCAL QUIZ!

2. Open books, **WORK** on today's **AO**!

3. ***HW** = Read & Do Pg. 184-185!

TODAY'S ACADEMIC OBJECTIVE

Today you will **EMPLOY** your knowledge of Chemical Element Symbols in order to **DEMOLISH** today's Vocal Quiz!

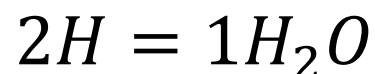
FRIDAY, FEBRUARY 8th

DO NOW

- In your notebooks, to be checked, solve this problem...

There are 2 Hydrogen in 1 Water Molecule (H_2O). These are units of Chemistry!

Know:



Asked: How many Water Molecules can be produced from 1450 Atoms of Hydrogen?

TODAY'S PLAN

1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!
 - Today's **QP** = QP QUIZ PREP = DRAW Atomic Models for these elements; Helium (2P, 2N, 2E) AND Neon (10P, 10N, 10E)!
2. Open books, **WORK** on today's **AO!**
3. ***HW** = CHECK your grades on the Portal!

TODAY'S ACADEMIC OBJECTIVE

Today you will **REFRESH** your **ATOMIC** Drawing Skills by **SKETCHING** some **ATOMIC MODELS!**