Chemistry Unit Review Name: KEY

Structure of an atom

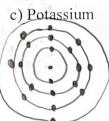
Particle name	Charge	Comprised of	Where it is found
proton commendation	positive (+) restration regarive (-)	quarks quarks leptons	nucleus shells lorbits
What is the outer n	nost shell called? Va	lence	
How many electron 1st 2nd 2nd	ns can each shell hold 3^{rd} 8^{th} 4^{th}	32	ALL IN THE
What are the 2 mai	n measurements of at S and net d	oms? Nurge	WJ.
How do you find the	ne mass of an atom?		

How do you determine the total charge of an atom/ion? protons - electrons

Bohr models

What is the purpose of the Bohr model? To show the atomic structure of elements by shaving Draw Bohr models for the following elements:

- a) Nitrogen
- b) Helium



Valence electrons?

Valence electrons?

Valence electrons?

For each of the given numbers of subatomic particles, find the total mass of the 25p, 22n, 25e atom, and the total charge: 14p, 18n, 15e

32 amv, -

47amu, 0

H= Nonmetal He = Noble gas Li = Alkali Metal

Be = A | Kali Earth Metal

B = Semi metal C = Non-metal

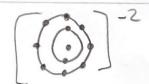


N = Non-metal

0 = Non-metal

F= Halogen







Ne = Noble gas



Naming Compounds There are two types of compounds: ionic + covalent
What is the difference between the two compounds? ionic = electrons transfered between a metal + non-metal covalent = electrons shared between a non-metal + non-metal
a) NO2 b) P2O5 c) CF4 d) TeO nitrogen di oxide carbon tetra flouride diphosphorus pentaoride tellurium oxide
diphosphorus pentaoride tellurium chiae
Write the formulas for the following covalent compounds.
a) Diphosphorous trioxide $P_2 O_3$ c) Selenium hexafluoride $Se F_6$
b) Trisilicon dinitride $S_{13}N_2$ d) Dinitrogen monoxide N_2O
Name the following ionic compounds: a) Al ₂ O ₃ b) Mn(CrO ₄) ₂ c) AgCl Aluminum Oxide Manganese (IX) Chromate Silver chloride
Write the formulas for the following ionic compounds:
a) Maganese (IV) Oxide b) Calcium Phosphate c) Osmium (III) Sulphate Mn O2
a) Snow becoming slush b) Leaves changing colour in the fall chemica
For the following: name each of the atoms involved, the number of each atoms and the total number of atoms in the formula: (NH ₄) ₂ SO ₄ & CrF ₂ Nitrogen 2 Nydrogen 8 Suffix 1 Oxygen 4

Scientific Method	
What is science?	
The study of the natural world	
Variable Var	
What is the scientific method?	
What is the scientific method? 1 - observe lask question 5 - draw conclusions.	
a-form hypothesis,	
3 - Osign Controlled experiment	
4 - record + analyze results	
List 3 pieces of lab safety equipment in the science room.	
-tire extinguisher	
- lab safted goggels	
- shouer + exercish	
- lab safted godgels - shouer + eyewash Design a controlled experiment and give examples of two types of data you would	
collect. Include a hypothesis for this experiment that uses the word <u>because!</u>	
Think back to gommy bear lab.	
This answer must include	
-qualitative data -quantitative data	
- avantitative data	
- hypothesis *	
- control grup.	
average to average	
- experimental graf	
- experimental grup - inclependant variable - dependant variable	
donendant variable	
- achains	