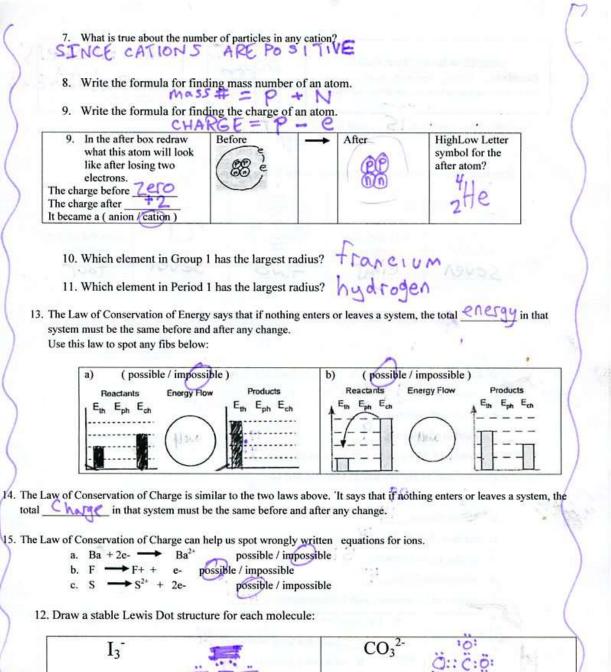
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Exceptions to the Octet Rule CAeMis+ry: http://genest.weebly.com top in for help every day at lunch and Tues,&Thurs after school!	14.44 14.44	-c-	ne ANSWER
	- 1 4 4 - 1	5°4	4.14
1. How many protons 15 and neur		are in:	
	32 ₁₅ P	The letter of th	
How many valence electrons are in each	h of the following?	,	
2. How many valence electrons are in each	ir or the following.	0395	
300			
	((((())))	·C1.	
a +1 cation of sodium		·Cl	a neutral carbon atom
1s ² 2s ² 2p ⁵ sodium	tuo	seven	fanc
Sever Cind	-WC	3011	7001
- indiameter			
w many protons and neutrons are in:			
	32 ₁₅ P		
*:	20	-	
3. For an atom with atomic number =9, char	ge of zero, and 10 n	eutrons	6
a. mass number 19			
b. number of protons?			
c. number of electrons 9	19		
	ow numbers 91		
d. symbol of the element, with highL		-	
d. symbol of the element, with highL 4. For an atom with 14 protons and 15 neutr		- ns	
 d. symbol of the element, with highL 4. For an atom with 14 protons and 15 neutral a. mass number 19 		- ns	Smed 2
d. symbol of the element, with highL 4. For an atom with 14 protons and 15 neutr a. mass number 19 b. atomic number 19		- ns	- 5 gial 2 -
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d. symbol of the element, with highL 4. For an atom with 14 protons and 15 neutr a. mass number 14 b. atomic number 14 c. number of electrons 14 d. symbol of the element 5	rons and 18 electron	u- u	Spel 2
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d. symbol of the element, with highL 4. For an atom with 14 protons and 15 neutr a. mass number 19 b. atomic number 19 c. number of electrons 19 d. symbol of the element 5 e. charge of the atom 4 f. symbol of the element, with highL 5. For this atom a. how b. how	ow numbers 145	.u- .s? U	55.00
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d. symbol of the element, with highL 4. For an atom with 14 protons and 15 neutral a. mass number 19 b. atomic number 19 c. number of electrons 19 d. symbol of the element e. charge of the atom 1 f. symbol of the element, with highL 5. For this atom a. how b. how c. how 6. What is true about the number of particles	ow numbers 145 many total electron many protons? many valence electron in an atom that has a	is? U	
d. symbol of the element, with highL 4. For an atom with 14 protons and 15 neutral a. mass number 19 b. atomic number 19 c. number of electrons 19 d. symbol of the element 20 e. charge of the atom 4 f. symbol of the element, with highL 5. For this atom a. how b. how c. how	ow numbers 145 many total electron many protons? many valence electron in an atom that has a	is? U	



What's the name of this geometry? LIN EAR

What's the name of this geometry?

Draw polar bonds

CheMis+ry:

http://genest.weebly.com

Stop in for help every day at lunch and Tues,&Thurs after



Name

- According to your electronegativity table, what is the exact electronegativity of each element below? c. calcium
 - a. beryllium \ 5

b. phosphorous

- d. fluorine 4.0
- 2. Calculate the number of valence e- in each of the following:
- a) SO_4^2

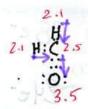
c) $CH_3O_2^+$

b)NH₄

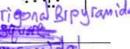
3. Next to each atom, write the electronegativity value from your table. Then draw an arrow to show the direction of polarity of the bond. Finally, write the symbols for partial positive and negative.δ+ and δ-





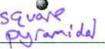


- 4. Why does your table not have electronegativity numbers for the nobel gases? Since ... (see below)
- 5. Next to each, write the name of the geometric shape based on the central atom. Assume each line is a connection between two atoms.











6. Draw a stable Lewis Dot structure for each molecule AND THEN WRITE the name of the moleculaes geometry, based on the central atom: b)SO42a) NF₃ What's the name of this geometry? NH₄⁺ CIO₃ TRIGONAL PYRAMIDAL What's the name of this geometry? tetraledra What's the name of this geometry? 7. How many total valence e- are in each of the following? a. I₃ b. CO₃²d. NO₃ 8. Which element in Group 2 has the largest radius? 9. Which element in Period 2 has the largest radius? 10. Draw a stable Lewis Dot structure for each molecule:

TRIGONAL PLANER
What's the name of this geometry?

SCI₂

SCI₂

SCI₂

What's the name of this geometry?

5666 1=240-

We have a big test Friday.

To study you should RE DO your old worksheets until they are ridiculously easy.

Purpose:

Can any atoms hold more than an octet in their outer orbit?

WARMUP:

Write an answer sheet in your notes, we're about to take a fake quiz:

Fake Quiz:

1

2

3

4

5

6

Practice Quiz

write the names that match the following six scientist descriptions"

- Proposed that electrons are in shells around the atom. Stable atoms have a full valence shell (we just learned this in class)
- 2) There's no such thing as 'living molecules' and 'nonliving molecules'. Everything is just made of atoms there's no difference between atoms in living and nonliving things. Saw all this because UREA formed in a jar on his desk.
- Discovered the strongest substance that will ever be discovered. Ever.
 - Discovered charged particles called electrons by using a glowing glass tube and electricity. Discovered electrons are negative.

- 5) Discovered cesium and rubidium. Discovered that the sun has atoms of sodium. Saw rainbow colored light spectrums in flames.
- 6) Organized the elements into a table with groups and rows (we now call this The Periodic Table)

These are possible: Draw 13- and tell its shape. Total valence e-7+7+7+1 = 22e The middle ATOM HAS 5 THINGS 2 are atoms 3 lone pairs THE SHAPE IS LINEAR Draw PCl₅ and tell its shape. total valence e : 5+35 = 40e ich chi the middle atoms has five things has five things. Chi (all are atoms) The shape is to pyramidal trigonal bip gramidal Draw BH₃ and tell its shape. total valence: 3+1+1+1=6e-H : B : H · atom has + three things (all atoms) the shape is trigonal planer

#2 Expanded octets are possible in large molecules (only phosphorus and larger elements can do this)

Draw UF₆ and tell its shape.

#3 Partially empty octets are possible in small molecules (only boron and beryllium can do this).

Draw BeH₂ and tell its shape.

Copy THIS ATOM

1522522p63523p1

tells which stells how many electrons

Friday's Test

Covers the last three weeks.

Covers all the 'patterns' sheets.

You are allowed to bring your movie notes sheet IF you don't write a bunch of other stuff on it.

If you were absent, get a blank movie notes sheet and copy the notes from a friend OR watch the movie at genest.weebly.com

Friday's Test

There is a secret way to get an 'A' on any test in

- physics
- chemistry
- math

Do the entire homework assignment over

or

At least do over any problem you marked with an X during homework check.