

## PURPOSE: FIND SHAPE NAMES. OF LEWIS DOT MOLECULES

WARMUR Draw the neutral Lewis Dot Atom for each: CARBON BROMINE SILICON BARIUM OCO Brown Silicon BARIUM

Draw the Lewis dot of CH20 4+1+1+6=12e-

H CO

MUST ADD & TWO AT A TIME (Never SINGLES)

- there are ( few of / lots of )
- d. Now add electron dots (one at a time / two at a time ) to bond the atoms together
- e. Add any leftover (protons / electrons ) as lone pairs
- f. Check that each atom is stable and follows the (trio / quartet / octet) rule.
- g. If you ran out of e-, you should erase some lone pairs and turn them into (single / double ) bonds.

1) NF3	2) O2	3)CO	4)PH3
5)802  :0:5:0:  Your chart  Calls this show	6) BI3  STORET SHAPE  IS TRIGONAL	7) NBr3 Br: N: Br :Br: TRIGONAL	8) CH4 H  TETRAHEDRAL
9)CH3OH (C central)	10) C2H6	11)SiF4	12) CH2Cl2

HINTS FOR HOW TO TELL SHAPE

[even though we weren't asked to find 7

Lishape of the molecules above, I have

Solved their shapes as examples to

help you with the back bage

of homework tonight. By looking at my

answers here it may help you solve your h.w.

## Ms McParland Classwork + Homework

CAeMis+ry: http://genest.weebly.com

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



Name Period

1.	Fill	in	the	table

Circle atoms that are stable, cross out atoms that are unstable

Either write 'stable' or redraw the same letters in the same arrangement but with any number of e- that will make the atoms stable

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Complete each step with the correct word or words.

In class we learned that the steps for drawing a Lewis Structure of a molecule are:

- a. First, you total up the number of valence \_\_\_\_\_ on all of the atoms of the formula.
- b. Then, when totaling up the e-, assume that each atom is (charged / neutral )
- c. Next, place the element symbols on your drawing first, putting in the middle, any element that there
  - d. Now add electron dots (one at a time / two at a time ) to bond the atoms together
  - e. Add any leftover (protons / electrons ) as lone pairs
  - f. Check that each atom is stable and follows the (trio / quartet / octet) rule.
  - g. If you ran out of e-, you should erase some lone pairs and turn them into (single / double ) bonds.

3. Draw a stable Lewis Dot structure for each molecule:	OF <sub>2</sub> 6+7+7=20e= :F:Ö:F:
· Ť: ř.	7.7.7.5=260
CO <sub>2</sub> G+6+4=16e	: I : N: I
. O	'. <u>;</u> ;

