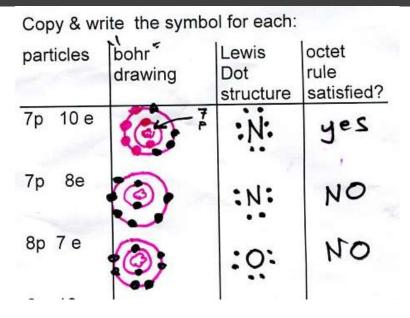
Purpose:

How do we use symbols to draw stable atoms?

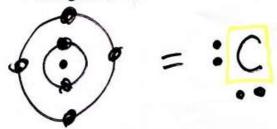
WARMUP



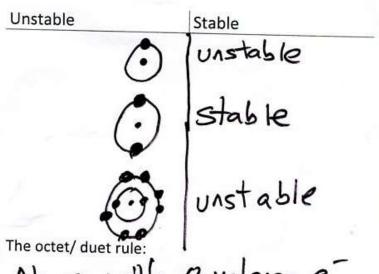
 Orbits are a way of showing the energy level of an electron. They don't show the true shape that the e- moves in.

- Valence orbit is outermost orbit of an atom
- 3. How to draw the <u>Bohr Structure</u> for the first twenty elements:
 - a) For the protons and neutrons, draw the nucleus.
 - b) For the electrons, fill inner orbits with e- before going to a new orbit.
 - c) Orbits are full:
 - 1st orbit holds up to 2 e-
 - 2nd orbit holds up to 8e-
 - 3rd orbit holds up to 8 e-

- How to draw a Lewis dot structure for any element
 - a) write the letter symbol for the element.
 - b) draw electrons as dots around an imaginary square.



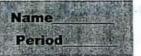
5. Atoms are con stable when their valence orbit is full.



Atoms with B valence e are stable (except small Atoms with one orbit are stable with 2 valence e)

	Why the trends?
	CAeMistry: http://genest.weebly.com
鰋	Stop in for help every day at lunch and Tues & Thurs after school





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Define t	ha foll	owing	terme
Denne u	HE IOH	OWILLS	CEI IIIS.

a Period

THE SIDEWAYS, ROWS

b. Group

THE VERTICAL COLUMNS

c. Atomic radius

HALF OF THE DISTANCE

HALF OF THE DISTANCE

BETWEEN TWO ATOM NUCLE! THAT ARE IN

d. Electronegativity

The afflaction should electron

e. Ionization Energy

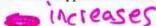
The chergy needed

to remove an

Questions.

You can answer these from your notes today or, if you have a Smart Phone, the textbook pictures on the top of pp. 401, 403, & 406. You can view the textbook pages at our class website: genest.weebly.com using any Internet device.

1. What happens to the atomic radius between elements two and three?



2. What happens to the atomic radius between elements eleven and eighteen?

decreases

3. Which group on the periodic table has the highest ionization energy?

the noble gases

4. Which group has the periodic table has lowest ionization energy?

the first group

5. What happens to the ionization energy between elements ten and eleven?

Decreases

6. What happens to the ionization energy between elements three and ten?

INCreases

7. What happens to the ionization energy between elements four and five

goes down

8. What happens to the ionization energy between elements seven and eight

goes down

