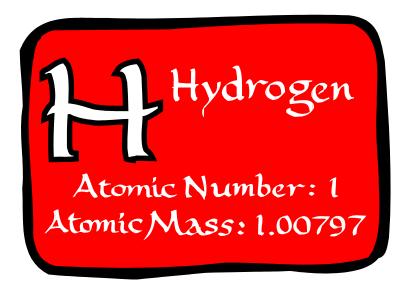
Periodic Table Study Guide

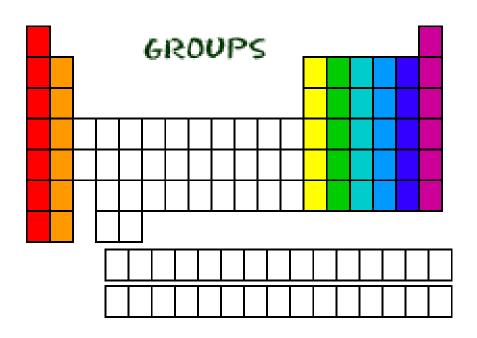
How to Draw Lewis Structures

5th Grade Science Mrs. LaRosa

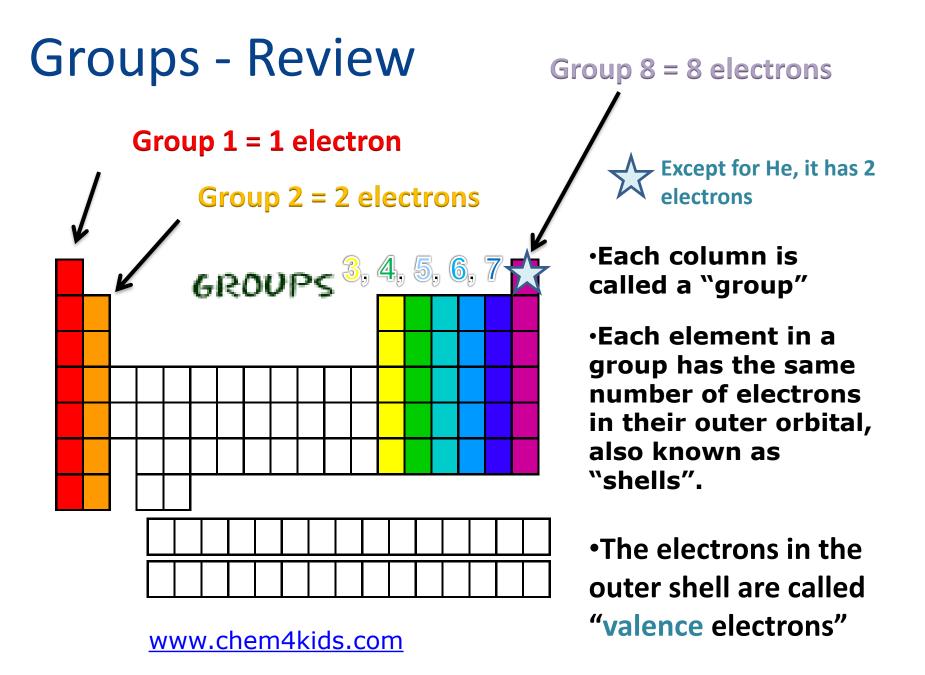
www.middleschoolscience.com 2008

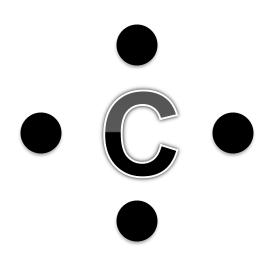
- 1) Find your element on the periodic table.
- 2) Determine the number of valence electrons.
- 3) This is how many electrons you will draw.



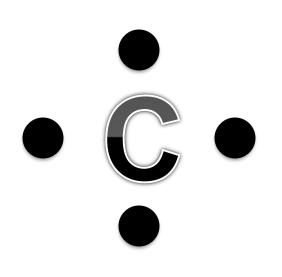


- Find out which group (column) your element is in.
- This will tell you the number of valence electrons your element has.
- You will only draw the valence electrons.

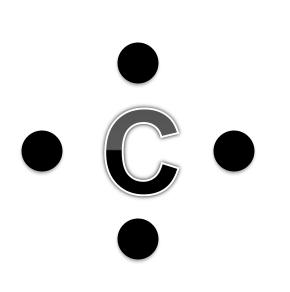




- 1) Write the element symbol.
- 2) Carbon is in the 4th group, so it has 4
 valence electrons.
- 3) Starting at the right, draw 4 electrons, or dots, counterclockwise around the element symbol.



- 1) Check your work.
- Using your periodic table, check that Carbon is in the 4th group.
- 3) You should have 4
 total electrons, or
 dots, drawn in for
 Carbon.



- a) H
- b) P
- c) Ca
- d) Ar
- e) Cl
- f) Al

a) H

b) P

c) Ca

d) Ar

e) Cl

Al

f)



On your worksheet, try these elements on your own:

a) H

b) P

c) Ca

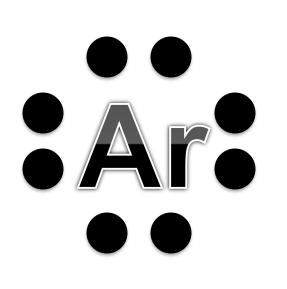
d) Ar

e) Cl

f) Al



- a) H
- b) P
- c) Ca
- d) Ar
- e) Cl
- f) Al



On your worksheet, try these elements on your own:

a) H

- b) P
- c) Ca
- d) Ar
- e) Cl
- f) Al

- a) H
- b) P
- c) Ca
- d) Ar
- e) Cl
- f) Al

- a) H
- b) P
- c) Ca
- d) Ar
- e) Cl
- f) Al

End of Study Guide.

Complete the Lewis Structure Worksheet

You should know how to draw Lewis Structures for the first 20 elements.

Name:

- Lewis structures, or dot diagrams, are a simplified way to show how the valence electrons are arranged in the outer shell. This is
 where the chemical reactions take place. Atoms will either share or give away these electrons to form bonds.
- · Using your periodic table, determine the number of valence electrons for each element.
- Draw a dot to represent each valence electron around the element symbol.
- · Follow the pattern below starting with position number 1.

