

# Chemistry CP

Name:

Homework: Periodic Trends

Section:

Assignment	Due Date
1. Finish <a href="#">My Life as a Radioisotope</a> Project	Wednesday, 11/7
2. Learn periodicity vocabulary (1 column on pair tutoring sheet)	Thursday, 11/8
3. Listen to <a href="#">webcast on the development of the periodic table</a> ; take notes	
4. Learn periodicity vocabulary (1 column on pair tutoring sheet)	Friday, 11/9
5. Handout	Tuesday, 11/13
6. Extension questions from POGIL activity	
7. Learn periodicity vocabulary (1 column on pair tutoring sheet)	Wednesday, 11/14
8. Handout: Regions of the Periodic Table & Periodic Trends	
9. Create a concept map including the following terms: group, period, valence electron, ionization energy, atomic radius, electronegativity, s, p, d and f blocks	Thursday, 11/15
10. FFF#8 Summary card	Friday, 11/16

## Dates to Remember:

My Life as a Radioisotope project due Wednesday, 11/7

FFF#8 Friday, 11/16

## After studying this unit, you should be able to:

- Explain the roles of Mendeleev and Moseley in the development of the periodic table.
- Distinguish between a group and a period in the periodic table.
- Categorize the elements as main group element, noble gas, transition metal, or inner transition metal.
- Describe how the elements belonging to a group of the periodic table are interrelated in terms of atomic number.
- Locate and name the four blocks of the periodic table. Explain the reasons for these names.
- Discuss the relationship between group configurations and group numbers.
- Describe the locations in the periodic table of the alkali metals, the alkaline-earth metals, the halogens, and the noble gases.
- Interpret the trend shown by atomic radii within the periodic table.
- Explain the variation in ionization energies within the periodic table.
- Interpret the trend shown by atomic sizes within the periodic table.
- Interpret the trend shown by electronegativities within the periodic table.
- State how many valence electrons are present in atoms of each main-group element.
- Represent main-group elements as Lewis dot diagrams.

## Some Useful Websites

<http://www.webelements.com/webelements/index.html>

<http://www.chem.tamu.edu/class/majors/tutorialnotefiles/trends.htm>

[http://www.colorado.edu/physics/2000/periodic\\_table/periodic\\_properties.html](http://www.colorado.edu/physics/2000/periodic_table/periodic_properties.html)

<http://antoine.frostburg.edu/chem/senese/101/periodic/index.shtml>

<http://www.sciencegeek.net/Chemistry/taters/directory.shtml> Unit 2 review materials

<http://www.sciencegeek.net/Chemistry/Powerpoints.shtml> Electrons & periodic behavior powerpoint

<http://www.tps.k12.mi.us/staff/eferwerda/chem-obj/obj-4,5,11.htm> some atomic structure, too

[http://www.tps.k12.mi.us/staff/eferwerda/chem\\_quiz\\_index.htm](http://www.tps.k12.mi.us/staff/eferwerda/chem_quiz_index.htm) quizzes on periodic table and periodicity

<http://www.usetute.com.au/> tutorials on periodicity

[http://nobel.scas.bcit.ca/chem0010/unit3/3.3.2\\_Lewis.htm](http://nobel.scas.bcit.ca/chem0010/unit3/3.3.2_Lewis.htm) Lewis dot structures

<http://www.usetute.com.au/lewisstr.htm> Lewis dot structures and more

[http://www.avon-chemistry.com/p\\_table\\_lecture.html](http://www.avon-chemistry.com/p_table_lecture.html)

[Study Stack for Periodicity Vocabulary](#)