7. Lithium can be found in Mount Palomar's 200-inch telescopic mirror. Draw the Bohr model for lithium.

8. Sulfur dioxide is often used at water treatment facilities to dechlorinate water. Draw the Bohr model for sulfur.
Day 3

A. Understanding the Periodic Table – Use the given Periodic Table to answer the questions.
B. Chemistry Can Be Fun – Be creative and match the elements with the items. Then create 3 of your own on the bottom of the paper.

Day 4

A. Bohr Model Worksheet – Draw the Bohr Models showing all the electrons in each energy level.
Understanding the Periodic Table

Use your periodic table to help you answer each question.

1. List the atomic number of the elements in period 2 IN ORDER from left to right.
2. Is sulfur a metal (A) or nonmetal (B)?
3. Is aluminum a metal (A) or nonmetal (B)?
4. Is chromium a metal (A) or nonmetal (B)?
5. Write the atomic mass of the lightest element in period 2
6. Write the atomic mass of the heaviest element in period 2.

To which group does each of these elements belong?

7. Lithium ________
8. Calcium ________
9. Silicon ________
10. Oxygen ________
11. Iron ________
12. Neon ________
13. Iodine ________
14. Aluminum ________

15. List the atomic numbers of the elements in group 3 IN ORDER from lowest to highest.
16. What is the atomic number of iron?
17. To which period does calcium belong?
18. Which of these elements will have properties similar to calcium: (A) iron, (B) beryllium, (C) ruthenium, (D) sodium.
19. Which of these elements will have properties similar to iron: (A) iron, (B) beryllium, (C) ruthenium, (D) sodium.

Match each term in column A with its description in column B. Write the correct letter.

<table>
<thead>
<tr>
<th>Column A</th>
<th>Column B</th>
</tr>
</thead>
<tbody>
<tr>
<td>20. Metals and nonmetals</td>
<td>a) the number of protons in the nucleus</td>
</tr>
<tr>
<td>21. Periodic table</td>
<td>b) elements in the same column (down)</td>
</tr>
<tr>
<td>22. Atomic number</td>
<td>c) the chart of all the elements</td>
</tr>
<tr>
<td>23. Group</td>
<td>d) elements in the same row (across)</td>
</tr>
<tr>
<td>24. Period</td>
<td>e) the total # of particles in the nucleus</td>
</tr>
<tr>
<td>25. Mass number</td>
<td>f) the two basic kinds of elements</td>
</tr>
</tbody>
</table>
Chemistry Can Be Fun

Test your scientific and creative talents with the following matching items. When you finish these, create some of your own. Good luck and have fun.

____ What do you do with dead people
    A. H (Hydrogen)

____ A western ranch owner
    B. N (Nitrogen)

____ Name of a girl
    C. Ni (Nickel)

____ Thing you turn on when it’s dark
    D. Si (Silicon)

____ Eve’s husband
    E. Cu (Copper)

____ An Ox’s outer covering
    F. He (Helium)

____ Half of a dime
    G. I (Iodine)

____ The Lone Ranger’s horse
    H. Sb (Antimony)

____ Not fat
    I. Oxide

____ A policeman — slang
    J. Rh (Rhodium)

____ Gin with water in it
    K. Atom

____ What I do when I’m hungry
    L. Ba (Barium)

____ Male of the Ganese tribe
    M. Cl (Chlorine)

____ What torpedoed ships do
    N. Pd (Palladium)

____ What he did to a bucking horse
    O. Zn (Zinc)

____ Why she wears perfume
    P. Ag (Silver)

____ What she got after the divorce
    Q. Catalyst

____ Large English theater
    R. Electrolyte

____ What should be done to a wounded man
    S. Sn (Tin)

____ A crazy inmate
    T. Te (Tellurium)
The periodic table
www.webelements.com

Element names, symbols, and weights are recommended by IUPAC.
Bohr Model
Worksheet

Directions
Draw the Bohr Models showing all the electrons in each energy level.

1. Magnesium compounds are used in the production of uranium for nuclear reactors. Draw the Bohr model for magnesium.

2. Sodium is found in salts that can be used to seed clouds to increase rainfall. Draw the Bohr model for sodium.
3. Neon is often found in lasers. Draw the Bohr model for neon.

4. Argon gas can be found in Geiger counters which are used to detect radiation. Draw the Bohr model for argon.
5. Aluminum alloys are used in airplane construction due to their low density. Draw the Bohr model for aluminum.

6. Oxygen is often added to rocket fuel as an oxidizer. Draw the Bohr model for oxygen.