

Name: \_\_\_\_\_

Period: \_\_\_\_\_

**HW2:7 Atoms, Elements, Molecules and Compounds**  
**Mr. Murray, IPC**  
**science.fearthepenguin.net**

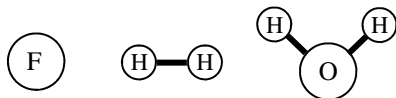
**Assigned: Mon., 9/25 and Tues., 9/26**  
**Due: Wed., 9/27 and Thurs., 9/28**

1. What experiment found the nucleus?
2. J.J. Thomson found what part of the atom?
3. What contribution to the atomic model did Niels Bohr make?
4. The negative subatomic particle is the:
5. The positive subatomic particle is the:
6. Which particle would you add to the nucleus to add more mass, but not add more charge?
7. Draw and label a Bohr model atom (include the particles):
8. What element has 16 protons?
9. Silicon has how many protons?

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10. How are molecules and compounds different?

11.



- A) How many atoms ?
- B) How many elements?
- C) How many molecules?
- D) How many compound?

12. Given 4 p, 2 e, and 4 n:

- A) what element is it?
- B) what is its total charge?

13. A very heavy and dense metal like iron seems to be solid throughout. Given what you now know about the atom, is that true and why or why not?

14. Give one example of the skeletal system protecting a major organ.

15. Without enough salt in your body electricity cannot flow properly, slowing down thinking and response time. Which body system is impaired with a lack of salt?

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