

Name: _____

Period: _____

HW2:4 Guided Reading 2
Mr. Murray, IPC
science.fearthepenguin.net

Assigned: Fri., 9/15 and Mon., 9/18
Due: Tues., 9/19 and Wed., 9/20

Start on p. 70

1. What do we call the tiny building blocks of all matter?

2. Who came up with the atom and said that atoms were indivisible (unable to be divided)?

3. Atoms put together make what?

4. Who proposed a theory that all of the atoms of a particular element are the same?

5. *NOTES: John Rutherford shot alpha particles at gold foil. Most of the particles went right through. He proposed that an atom is mostly empty space. There is a small, positive nucleus with the negative electrons scattered around the outside edge.*

6. What are the three subatomic particles (inner parts of an atom)?

7. What do we call the center of the atom?

8. What particles are in the center of the atom?

9. Protons are _____

10. Electrons are _____

11. Neutrons are _____

12. If an atom has 3 protons and 3 electrons

- A) How many positives does it have?
- B) How many negatives does it have?
- C) What is its total charge?

13. Who suggested that the atom is like a group of planets around a sun?

14. What part of the atom is the sun in the above model?

15. What part of the atom are the planets?

16. Can electrons be between electron levels?