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| **GVC #1 -- I can explain the basic chemistry, structure and function of cells.** |
| **Learning Target - a.** I can categorize the major elements utilized in cells and how they bond to form molecules. |

**BOOK NOTES**

Pages 36-37

1. What is **Matter**?

2. What is an **element**?

3. What are the 6 most abundant elements in cells? (you can use the acronym)

4. Color those 6 elements yellow on the periodic on the backside of this paper.

5. What is a **trace element**?

6. On the periodic table color the following trace elements orange: Iodine (I), Potassium (K), Calcium (Ca), Iron (Fe), Magnesium (Mg), Sodium (Na) and Chlorine (Cl).

7. What is an **atom**?

8. Give the 3 parts of an atom **and** where each is located in the atom.

9. What is a **chemical compound**?

10. Explain the difference in **ionic** and **covalent** bonding.

11. To the right is a picture of a Lithium atom. It has 3 protons, 4 neutrons and 3 electrons. Color it according to this key:

 Protons – Red

**-**

 Neutrons – Blue

 Electrons **-** Green

**Sooner or later every one of us breathes an atom that has been breathed before by anyone you can think of who has lived before us- Michelangelo or George Washington or Moses.**

***Jacob Bronowski***

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