

Chapter 17 – Properties of the Atom and the Periodic Table

I Can Statements

I can...

- _____ 1. Identify the name of selected elements by their chemical symbol.
- _____ 2. Sketch the general location of the protons, neutrons, and electrons in the atom.
- _____ 3. Differentiate the sub atomic particles based on charge.
- _____ 4. Define what a quark is.
- _____ 5. Identify the differences in the basic models of the atom.
- _____ 6. Explain how small the nucleus of the atom is compared to the atom as a whole.
- _____ 7. Determine the atomic mass of an element using the periodic table.
- _____ 8. Determine the atomic number of an element using the periodic table.
- _____ 9. Calculate the mass number by knowing the elements name and the number of given neutrons.
- _____ 10. Define isotope.
- _____ 11. Explain the importance of Mendeleev's periodic table and the discovery of unknown elements.
- _____ 12. Contrast Mendeleev's table with Moseley's table.
- _____ 13. Differentiate metals, nonmetals and metalloids using a picture of the periodic table.
- _____ 14. Distinguish between metals and nonmetals using the properties of these elements.
- _____ 15. Sketch the correct number of electron in energy levels of a particular atom.
- _____ 16. Name the families of the periodic table.