

Science 8 Mid-Term Review

Part 1 - Chemistry Unit

1. Know parts of an atom, and subatomic particles (protons, neutrons, electrons), charge, location, etc.
2. Understand how the Periodic Table of Elements is organized: groups/columns compared to periods/rows, metals vs. nonmetals, what type of information is shown in each element box, how does atomic number compare to atomic mass, etc.
3. Review all Chemistry unit note sheets, lab activity and practice worksheets, and quizzes and tests.

Part 2 - Astronomy/Space Unit

1. Different models of the solar system (heliocentric, geocentric)
2. Earth, Moon, Sun systems
 - Moon phases
 - Orbits and orbital shapes
 - Types of eclipses
 - Forces (gravitational, electromagnetic, weak nuclear, strong nuclear). For example, what force causes the moon to revolve around the earth?
3. Stars and Life Cycle of Stars:
 - Types of stars
 - The stages in the life cycle of a low mass star and a high mass star
 - Nuclear fusion
 - Understand how to read (decipher) and get information using HR (Hertzsprung-Russell) Diagram
4. Big Bang Theory
5. Review all Space unit note sheets, lab activity and practice worksheets, directed reading activity sheets, and quizzes and tests.