

1. Be able to explain what is studied in the following areas of biology: physiology; anatomy; histology; pathology
2. Know the branches of biology but not limited to: botany; zoology; ecology; microbiology; chemistry; physics
3. Be able to list and explain briefly the 9 levels of organization in the human body; simple to complex.
4. Name the activities common to all living things.
5. Be able to list the needs of all living things.
6. Know the following about the atom:
 - Definition
 - General structure - types, size and charges of the particles
 - Definition of a symbol; the 13 most important atoms
 - definition and example of a compound
 - Definition and example of an element
 - Definition and example of an ion, buffer, and pH scale.
7. Know the following about a molecule;
 - Definition
 - The differences between molecules of elements and compounds.
8. Know the etymology of certain root words. Quick Quizzes to follow. Dates for quizzes are August 27th; September 3rd; September 8th. Etymology words can be found on the school web site under Gr. 8 Science.

Project:

Levels of Organization Poster: Due: September 3, 2010