**When I reach the end of Standard 3 in 9th Grade Biology, these are the things I should be able to do:**

**Standard 3**

* I can label and identify the function of the muscle tissues, valves, and chambers of the heart.
* I can label and identify the function of the trachea, bronchi, and alveoli of the lung.
* I can label and identify the function of the veins, stomata, and stem in the leaf of plants.
* I can label and identify the function of xylem, phloem, and cambium in the stem of plants.
* I can label and identify the function of the root tip and elongation hairs in the root of plants.
* I can label and identify the function of the layers, glands, and hair follicles in skin.
* I can label and identify the function of the ova, follicles, and corpus luteum in ovaries.
* I can explain the function of major organs in plants and animals (heart, lungs, skin, leaf, stem, root, ovary).
* I can relate the structure of an organ to its function.
* I can compare the structure and function of an organ in one organism to the structure and function of an organ in a different organism (e.g., lungs vs. gills, lungs vs. leaf, skeleton vs. stem).
* I can research and report on technological advancements related to organs (e.g., transplants, pacemakers, dialysis machines, respirators, etc.).
* I can explain the role of each organ in relation to an organ system.
* I can describe the structure and function of the following organ systems: Digestive, Respiratory, Circulatory, Protection and Support (i.e., Skeletal, Integumentary), Nervous.
* I can describe how the above organ systems contribute to homeostasis of an organism.
* I can relate the functions of one organ system to another organ system in the same organism (e.g., respiration to circulation, leaves to roots).
* I can relate the structure and function of tissues within an organ to the structure and function of the organ.
* I can compare the structure and function of an organ system in one organism with the structure and function of an organ system in another organism (e.g., frog to human circulatory system, chicken to sheep digestive system, fern to peach reproductive system).