## Biology Advanced Parent Guide

Biology is the study of structure, growth, and function of the life systems of organisms. The study will encompass a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; and plants and the environment. Student investigations emphasize accurate observations, collection of data, data analysis, and the safe manipulation of laboratory apparatus and materials in the field and in the laboratory. This course will have a greater emphasis on laboratory experiences, gathering and processing complex data and writing technical conclusions based on data. Texas Essential Knowledge and Skills for Biology §112.34. Science, Biology, Adopted 2017

| $\mathbf{1}^{\text {st } \mathbf{6} \text { Weeks: }}$Biomolecules <br> Enzymes <br> Characteristics of Life <br> Prokaryote/Eukaryote Cells (Endosymbiotic Theory) <br> Viruses <br> Transport and Homeostasis | th $\mathbf{6}$ Weeks: <br> Body Systems Interactions <br> Plant System Interactions <br> Homeostasis |
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| Cell Respiration/ Photosynthesis |  |
| Scientific Explanation for Unity and Diversity of Life |  |

Questions? Please contact your course science teacher.

