



## STAFFORD MUNICIPAL SCHOOL DISTRICT

### Year at a Glance

#### Science – Biology

### Course Description:

In **Biology**, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Biology study 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; and ecosystems and the environment. TEKS for this course are currently in the revision stage with new implementation beginning in 2023. Updates to this document will occur in 2022.

| <b>Grading Periods</b> | <b>Unit Names</b>   |
|------------------------|---|
| Grading Period 1       | <i>Processes of Biology Investigations</i><br><i>Unit 1: Cell Structure</i><br><i>Unit 2: The Cell Cycle</i><br><i>Unit 3: Cellular Processes for Homeostasis</i> |
| Grading Period 2       | <i>Unit 4: Cellular Processes for Energy</i><br><i>Unit 5: The Role of Nucleic Acids and Protein Synthesis</i>  |
| Grading Period 3       | <i>Unit 6: Genetics and Epigenetics</i>   |
| Grading Period 4       | <i>Unit 7: Evolution</i><br><i>Unit 8: Taxonomy</i>   |
| Grading Period 5       | <i>Unit 9: Animal Systems</i><br><i>Unit 10: Plant Systems</i><br><i>Unit 11: Ecosystems</i>  |
| Grading Period 6       | <i>Unit 11: Ecosystems, cont.</i><br><i>EOC Review</i><br><i>Biology EOC Assessment</i><br><i>Unit 12: Current Developments in Biology</i>                        |