

STAAR Alternate 2 Spring 2026 Biology Essence Statements

STAAR Strand 1	STAAR Strand 2	STAAR Strand 3	STAAR Strand 4
Biological Structures, Function, and Processes	Mechanisms of Genetics	Biological Evolution	Interdependence within Environmental Systems
<p>Knowledge and Skills Statement Biology (5) Science concepts. The student knows that biological structures at multiple levels of organization perform specific functions and processes that affect life. (Readiness and Supporting Standard)</p> <p>Essence Statement Knows that all living things are composed of cells that perform specific functions and that viruses are different from cells.</p> <p>Knowledge and Skills Statement Biology (6) Science concepts. The student knows how an organism grows and the importance of cell differentiation. (Readiness and Supporting Standard)</p> <p>Essence Statement Recognizes the importance of the cell cycle and cell differentiation to the growth of organisms.</p> <p>Knowledge and Skills Statement Biology (11) Science concepts. The student knows the significance of matter cycling, energy flow, and enzymes in living organisms. (Readiness and Supporting Standard)</p> <p>Essence Statement Recognizes energy conversions in living organisms and the functions of various biomolecules.</p>	<p>Knowledge and Skills Statement Biology (7) Science concepts. The student knows the role of nucleic acids in gene expression. (Readiness and Supporting Standard)</p> <p>Essence Statement Recognizes the structure of DNA.</p> <p>Knowledge and Skills Statement Biology (8) Science concepts. The student knows the role of nucleic acids and the principles of inheritance and variation of traits in Mendelian and non-Mendelian genetics. (Readiness and Supporting Standard)</p> <p>Essence Statement Knows that the structure of DNA determines inherited traits in organisms.</p>	<p>Knowledge and Skills Statement Biology (9) Science concepts. The student knows evolutionary theory is a scientific explanation for the unity and diversity of life that has multiple lines of evidence. (Readiness and Supporting Standard)</p> <p>Essence Statement Knows evolutionary theory is a scientific explanation for the unity and diversity of life.</p> <p>Knowledge and Skills Statement Biology (10) Science concepts. The student knows that evolutionary theory is a scientific explanation for the unity and diversity of life that has multiple mechanisms. (Readiness and Supporting Standard)</p> <p>Essence Statement Knows that the unity and diversity caused by evolution can occur by multiple mechanisms.</p>	<p>Knowledge and Skills Statement Biology (13) Science concepts. The student knows that interactions at various levels of organization occur within an ecosystem to maintain stability. (Readiness and Supporting Standard)</p> <p>Essence Statement Recognizes the balance and interdependence within biological systems and their interactions within the environment.</p>

Knowledge and Skills Statement

Biology (12) Science concepts. The student knows that multicellular organisms are composed of multiple systems that interact to perform complex functions. (Readiness and Supporting Standard)

Essence Statement

Knows that biological systems have functions and interact.