

**Animal Biology CAMP TEKS**

**The following TEKS are embedded in this CAMP:**

Science

**5.12(A)** observe and describe how a variety of organisms survive by interacting with biotic and abiotic factors in a healthy ecosystem

**5.12(B)** predict how changes in the ecosystem affect the cycling of matter and flow of energy in a food web

**5.12(C)** describe a healthy ecosystem and how human activities can be beneficial or harmful to an ecosystem

**6.13(B)** identify and compare the basic characteristics of organisms, including prokaryotic and eukaryotic, unicellular and multicellular, and autotrophic and heterotrophic

**7.11(B)** describe human dependence and influence on ocean systems and explain how human activities impact these systems

**7.12(A)** diagram the flow of energy within trophic levels and describe how the available energy decreases in successive trophic levels in energy pyramids

**7.12(B)** describe how ecosystems are sustained by the continuous flow of energy and the recycling of matter and nutrients within the biosphere

**7.13(B)** describe the hierarchical organization of cells, tissues, organs, and organ systems within plants and animals

**7.14(A)** describe the taxonomic system that categorizes organisms based on similarities and differences shared among groups

**7.14(B)** describe the characteristics of the recognized kingdoms and their importance in ecosystems such as bacteria aiding digestion or fungi decomposing organic matter

**8.12(B)** describe how primary and secondary ecological succession affect populations and species diversity after ecosystems are disrupted by natural events or human activity

**8.12(C)** describe how biodiversity contributes to the stability and sustainability of an ecosystem and the health of the organisms within the ecosystem

**8.13(A)** identify the function of the cell membrane, cell wall, nucleus, ribosomes, cytoplasm, mitochondria, chloroplasts, and vacuoles in plant or animal cells

**8.5(E)** analyze and explain how energy flows and matter cycles through systems and how energy and matter are conserved through a variety of systems

**8.5(F)** analyze and explain the complementary relationship between the structure and function of objects, organisms, and systems

**8.5(G)** analyze and explain how factors or conditions impact stability and change in objects, organisms, and systems

**B.6** Biological structures, functions, and processes. The student knows how an organism grows and the importance of cell differentiation

**B.11** Biological structures, functions, and processes. The student knows the significance of matter cycling, energy flow, and enzymes in living organisms

**B.12** Biological structures, functions, and processes. The student knows that multicellular organisms are composed of multiple systems that interact to perform complex functions

**B.13** Interdependence within environmental systems. The student knows that interactions at various levels of organization occur within an ecosystem to maintain stability.

**B.13(A)** investigate and evaluate how ecological relationships, including predation, parasitism, commensalism, mutualism, and competition, influence ecosystem stability