Science – Grade 7 Life Science
District 2853

Month	Content	Performance Standards Addressed	Skills for Student Achievement	Assessment
Weeks 1-3	· Classification	A 4.1, A 4.2, A 4.3, A 4.4 (L.S.)	· List 7 levels of classification · Explain the importance of having scientific names for species and how they are written · List the six kingdoms and provide 2 characteristics of each	
	· Animals and Behavior	A 4.1, A 4.2, A 4.3, A 4.4 (L.S.)	· Describe differences between vertebrates and invertebrates · Explain characteristics of animals · Explain the difference between learned and innate behavior · Describe seasonal behaviors and rhythms of life (hibernation, starvation, migration, biological clocks, circadian rhythms) · Discuss ways animals communicate	
Weeks 4-5	· Invertebrates	A 4.1, A 4.2, A 4.3, A 4.4 (L.S.)	· List and describe types of symmetry · Dissect Earthworm and examine its internal and external structures · Dissect crayfish and examine its internal and external structure · Dissect Clam and examine its internal and external structure · Explain the difference between an open and a closed circulatory system · Describe the body parts and their functions in a mollusk · Describe the body parts and their functions in an earthworm · List the 4 main characteristics of an arthropod · Describe the different body parts and their functions in the four kinds of arthropods · Explain the two types of metamorphosis in insects	
Weeks 6-7	· Fishes, Amphibians and Reptiles	A 4.1, A 4.2, A 4.3 (L.S.)	· List 4 characteristics of chordate · Describe the main characteristics of vertebrates · Explain the difference between an ectotherm & an endotherm · Describe the 3 classes of living fish and give an example of each · Describe the characteristics shared by amphibians · Describe metamorphosis in	

			amphibians and give an example · Explain the adaptations that allow reptiles to live on land · Name the 3 orders of reptiles · Explain why amphibians are biological indicators	
Weeks 8-9	· Birds and Mammals	A 4.1, A 4.2, A 4.3 (L.S.)	· Name 2 characteristics that birds share with reptiles · Describe the characteristics of birds that make them well suited for flight · Explain “life” · Describe common characteristic of mammals · Explain the difference between monotremes, marsupials & placental mammals	
Weeks 10-12	· Intro to Plants	A 1, A 2, A 3.1, A 3.2, A 3.3, A 3.4, A 3.5, A 4.1, A 4.2, A 4.3, A 4.4, B 5.1, B 5.2, B 5.3, B 5.4 (L.S.)	· Identify the characteristics that all plants share · Discuss origin of plants · Explain differences in the 4 main groups of plants · Describe the features of mosses, liverworts, ferns, horsetails and club mosses · Explain how plants without seeds are important to humans and environment · Compare a seed with a spore · Describe the features of gymnosperms and angiosperms · Identify the parts and describe the functions of roots, stems, leaves and flowers	
Weeks 13-14-15	· Plant Processes	A 1, A 2, A 3.1, A 3.2, A 3.3, A 3.4, A 3.5, A 4.1, A 4.2, A 4.3, A 4.4, B 5.1, B 5.2, B 5.3, B 5.4 (L.S.)	· Describe the roles of pollination and fertilization in sexual reproduction · Explain the difference between sexual and asexual reproduction in plants · Describe how fruits are formed from flowers · Describe the process of photosynthesis and how it relates to cellular respiration · Describe 3 ways that plants may grow in response to their environment: phototropism, gravitotropism, daylight length · Define lichen and explain its symbiotic relationship	