

7TH Grade Science Scope & Sequence

Grading Period	Throughout the School Year	First Grading Period	Second Grading Period	Third Grading Period	Fourth Grading Period
Focus TEKS (R) Readiness (S) Supporting (P) Process	7.1 A, B 7.2 A, B, C, D, E 7.3 A, B, C, D 7.4 A, B	7.1 A 7.12 C, D, E, F 7.5 A 7.7 C	7.12 B, C 7.6 A , B, C 7.7 B 7.13 A, B	7.14 A, B, C 7. 11 A, B, C 7.5 A, C 7.10 A, B, C	7.9 A, B 7.8 A, B, C
Unit(S)	• Homeostasis	 Scientific Inquiry Chemistry of Life Characteristics of Life & Cells Cell Processes 	Body Systems	 Types of Reproduction DNA & Cell Cycle Genetics 	 Natural Selection and Dichotomous Keys Ecology Earth Systems Life in Space
Key Topics or Concepts	 Demonstrate safe practices during laboratory and field investigations. Design investigations. Collect & record data. Summarize data in writing, and/or using tables and graphs. Develop valid conclusions based on evidence. 	 Plan and implement scientific investigations. Demonstrate safe practices during lab and field investigations. Investigate how organisms respond to stimuli Describe how organisms maintain homeostasis 	 Identify the main functions of the body systems Identify the levels of structural organization in plants and animals Distinguish between physical and chemical changes Illustrate the transfer of energy in an organism Compare the functions of 	 Define heredity Compare and contrast the offspring from sexual and asexual reproduction Investigate and explain how structures in organisms have adapted for specific functions. Explain how genes control the traits of an organism. 	 Diagram the flow of energy through living systems Demonstrate and illustrate forces that affect motion in plant systems Predict and describe how catastrophic events impact ecosystems Analyze how weathering, erosion, and

 Analyze and use models to represent aspects of the natural through response to internal stimuli Differentiate between the between the organelles to organelles to the functions of organisms. Use a depose the dichotomous the surface organ systems organisms. 	position shape e surface atures of Texas odel the effects humans on
world. structure and function of cell organelles. • Explain now variation within groun a species • Or wariation within groun a species • De populations • Describe photosynthesis • Describe survival. • Identify how su selection and selective • Identify how su or breeding can cause changes • Identify how su or breeding can cause changes • Explain now water • Describe • Describe • Describe • De populations • De populations • Identify how • Identify how • Su or breeding can cause changes • Explain now • De populations • Identify how • Identify how • Identify how • Identify how • Explain now • Identify how • Identify how • Identify how • Explain now • Explain now • Identify how • Identify how • Identify how • Explain now • Explain now • Identify how • Identify how • Identify how • Identify how • Identify how • Identify how • Identify how • Identify how • Identify how • Identify how • Identify how • Identify how • Identify how • Identify how • Ide	bund and surface iter Describe how different environments support different communities of organisms Explain the relationship between biodiversity and sustainability Observe, record, and describe ecological succession Analyze characteristics of the solar system that allow life to exist Identify accommodation s that maintain life in space