

Competencies		Texas Essential Knowledge and Skills
Field 790: TX PACT: CORE: Grades 4–8		Texas Essential Knowledge and Skills for English Language Arts and Reading
		<p>112.20 b 11 Organisms and environments. The student knows that interdependence occurs among living systems and the environment and that human activities can affect these systems.</p>
052	Understand characteristics and life processes of living organisms.	<p>Grades 4–5:</p> <p>112.15 b 9 Organisms and environments. The student knows and understands that living organisms within an ecosystem interact with one another and with their environment.</p> <p>112.16 b 9 Organisms and environments. The student knows that there are relationships, systems, and cycles within environments.</p> <hr/> <p>Grades 6–8:</p> <p>112.18 b 12 Organisms and environments. The student knows all organisms are classified into domains and kingdoms. Organisms within these taxonomic groups share similar characteristics that allow them to interact with the living and nonliving parts of their ecosystem.</p> <p>112.19 b 11 Organisms and environments. The student knows that populations and species demonstrate variation and inherit many of their unique traits through gradual processes over many generations.</p> <p>112.19 b 12 Organisms and environments. The student knows that living systems at all levels of organization demonstrate the complementary nature of structure and function.</p> <p>112.19 b 13 Organisms and environments. The student knows that a living organism must be able to maintain balance in stable internal conditions in response to external and internal stimuli.</p> <p>112.20 b 11 Organisms and environments. The student knows that interdependence occurs among living systems and the environment and that human activities can affect these systems.</p>

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053	Understand the concepts and principles related to genetics, the theory of evolution, and the classification of organisms.	<p>Grades 4–5:</p> <p>112.15 b 10 Organisms and environments. The student knows that organisms undergo similar life processes and have structures and behaviors that help them survive within their environment.</p> <p>112.16 b 9 Organisms and environments. The student knows that there are relationships, systems, and cycles within environments.</p> <p>Grades 6–8:</p> <p>112.18 b 12 Organisms and environments. The student knows all organisms are classified into domains and kingdoms. Organisms within these taxonomic groups share similar characteristics that allow them to interact with the living and nonliving parts of their ecosystem.</p> <p>112.19 b 11 Organisms and environments. The student knows that populations and species demonstrate variation and inherit many of their unique traits through gradual processes over many generations.</p> <p>112.19 b 14 Organisms and environments. The student knows that reproduction is a characteristic of living organisms and that the instructions for traits are governed in the genetic material.</p> <p>112.20 b 11 Organisms and environments. The student knows that interdependence occurs among living systems and the environment and that human activities can affect these systems.</p>
054	Understand characteristics of different biomes, relationships between organisms, population dynamics, and the flow of matter and energy through ecosystems.	<p>Grades 4–5:</p> <p>112.15 b 9 Organisms and environments. The student knows and understands that living organisms within an ecosystem interact with one another and with their environment.</p> <p>112.15 b 10 Organisms and environments. The student knows that organisms undergo similar life processes and have structures and behaviors that help them survive within their environment.</p> <p>112.16 b 9 Organisms and environments. The student knows that there are relationships, systems, and cycles within environments.</p>

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		<p>112.16 b 10 Organisms and environments. The student knows that organisms have structures and behaviors that help them survive in their environments.</p> <p>Grades 6–8:</p> <p>112.18 b 12 Organisms and environments. The student knows all organisms are classified into domains and kingdoms. Organisms within these taxonomic groups share similar characteristics that allow them to interact with the living and nonliving parts of their ecosystem.</p> <p>112.19 b 10 Organisms and environments. The student knows that there is a relationship between organisms and the environment.</p> <p>112.19 b 13 Organisms and environments. The student knows that a living organism must be able to maintain balance in stable internal conditions in response to external and internal stimuli.</p> <p>112.20 b 11 Organisms and environments. The student knows that interdependence occurs among living systems and the environment and that human activities can affect these systems.</p>
<u>Content Domain XVII</u>		
EARTH AND SPACE SCIENCE		
055	Understand the history of Earth, characteristics of Earth materials and resources, and the geologic processes that shape Earth.	<p>Grades 4–5:</p> <p>112.15 b 7; 112.16 b 7 Earth and space. The students know that Earth consists of useful resources and its surface is constantly changing.</p> <p>Grades 6–8:</p> <p>112.18 b 10 Earth and space. The student understands the structure of Earth, the rock cycle, and plate tectonics.</p> <p>112.19 b 8; 112.20 b 9 Earth and space. The student knows that natural events and human activity can impact Earth systems.</p>

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056	Understand characteristics and properties of the hydrosphere.	<p>Grades 4–5:</p> <p>112.15 b 7; 112.16 b 7 Earth and space. The students know that Earth consists of useful resources and its surface is constantly changing.</p> <p>112.15 b 8; 112.16 b 8 Earth and space. The student knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system.</p> <p>Grades 6–8:</p> <p>112.19 b 8 Earth and space. The student knows that natural events and human activity can impact Earth systems.</p> <p>112.20 b 10 Earth and space. The student knows that climatic interactions exist among Earth, ocean, and weather systems.</p>
057	Understand Earth's atmosphere, weather, and climate.	<p>Grades 4–5:</p> <p>112.15 b 7; 112.16 b 7 Earth and space. The students know that Earth consists of useful resources and its surface is constantly changing.</p> <p>112.15 b 8; 112.16 b 8 Earth and space. The student knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system.</p> <p>Grades 6–8:</p> <p>112.19 b 8 Earth and space. The student knows that natural events and human activity can impact Earth systems.</p> <p>112.20 b 10 Earth and space. The student knows that climatic interactions exist among Earth, ocean, and weather systems.</p>
058	Understand characteristics of the solar system and the universe.	<p>Grades 4–5:</p> <p>112.15 b 8; 112.16 b 8 Earth and space. The student knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system.</p>

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		<p>Grades 6–8:</p> <p>112.18 b 11 Earth and space. The student understands the organization of our solar system and the relationships among the various bodies that comprise it.</p> <p>112.19 b 9 Earth and space. The student knows components of our solar system.</p> <p>112.20 b 7 Earth and space. The student knows the effects resulting from cyclical movements of the Sun, Earth, and Moon.</p> <p>112.20 b 8 Earth and space. The student knows characteristics of the universe.</p>