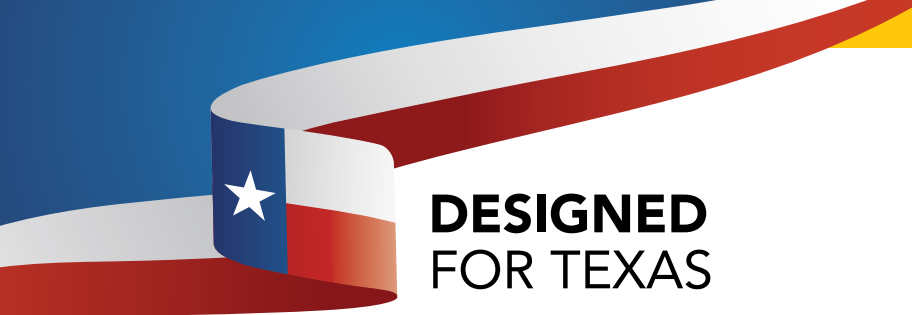




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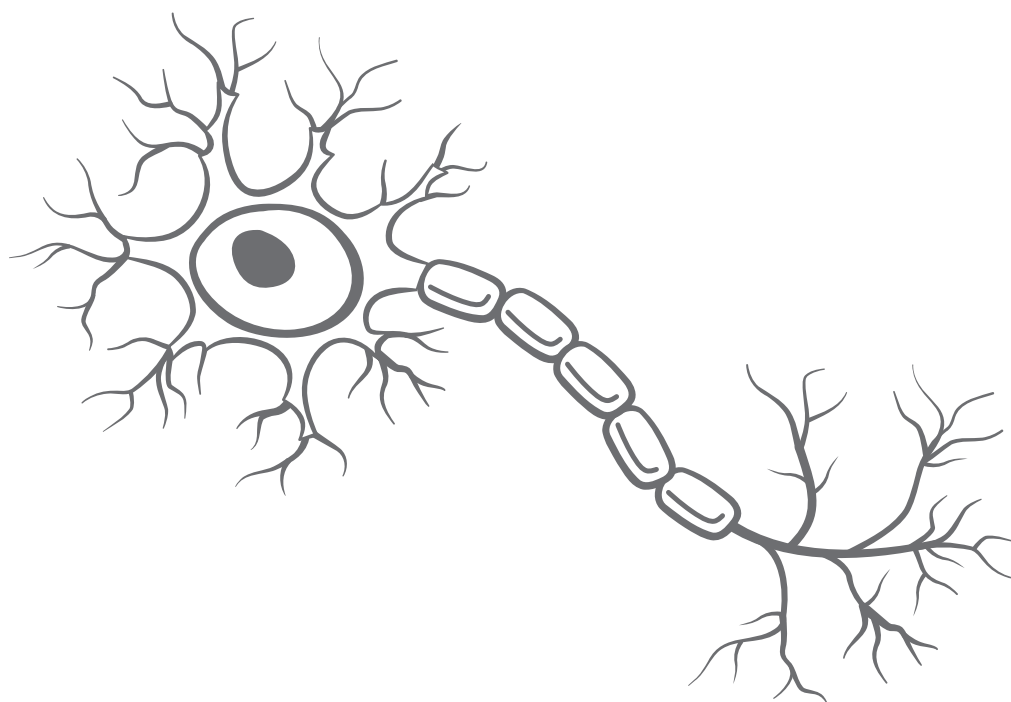
Course Planner and Pacing Guide

Each topic gives you the flexibility to focus on core assets that cover the TEKS by taking the Fast Track, or to pull in additional resources to create a more robust experience when you’ve Got More Time. Here you can see average durations in periods. The periods in the Got More Time column represent the time it would take to cover both the Fast Track and Got More Time resources. You can see durations in minutes in the Topic Planners, the Experience At-A-Glance pages, and the instructional pages of this guide.

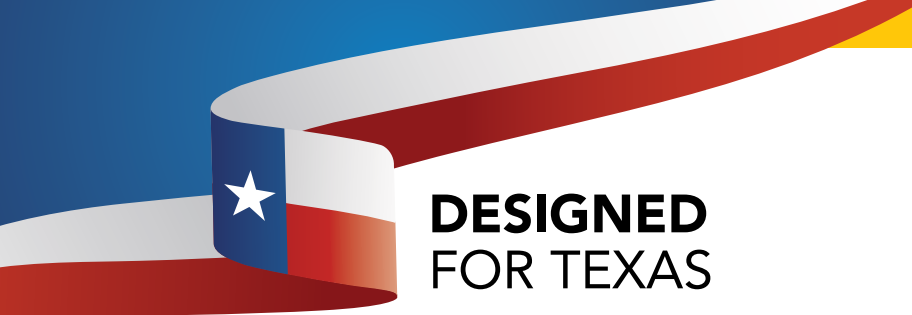
FAST TRACK Use the activities with a check mark to fast track your teaching.

GOT MORE TIME? Use the activities with a plus sign to personalize student learning.

	TOPIC 1 Matter and Solutions	✓	+	TOPIC 2 Force and Motion	✓	+	TOPIC 3 Thermal Energy	✓	+
Overview	Students will compare and contrast elements and compounds, distinguish between physical and chemical changes, and describe solutions.			Students will distinguish between speed and velocity, calculate average speed, and analyze and describe an object’s motion using Newton’s first law of motion and distance-time graphs.			Students will explain the relationship between temperature and kinetic energy, and investigate methods in which thermal energy is transferred and moves in predictable patterns.		
Anchoring Phenomenon	What is happening to the bath bomb?			How can you represent the motion of the cars?			How does this soft glowing material become a glass bottle?		
Topic Launch		0.5	1		0.5	1		0.5	1
Experiences	1 Elements and Compounds	3	6	1 Speed and Velocity	3	6	1 Temperature and Kinetic Energy	3	6
	2 Changes in Matter	3	6	2 Analyzing an Object’s Motion	3	6	2 Thermal Energy Transfer	3	6
	3 Solutions	3	6	3 Newton’s First Law of Motion	3	6	3 Thermal Energy and Equilibrium	3	6
Topic Wrap-up		1	1.5		1	1.5		1	1.5
TOTAL PERIODS		10.5	20.5		10.5	20.5		10.5	20.5



TOPIC 4 The Solar System			✓	+	TOPIC 5 Plate Tectonics			✓	+	TOPIC 6 Water and Human Activity			✓	+
Students will describe objects in the solar system, describe how gravity govern's Earth's solar system, and analyze the characteristics that allow life on Earth to exist.			Students will describe the evidence that Earth has changed over time and describe how plate tectonics changes Earth's surface.			Students will analyze how human activity influences groundwater and surface water and describe and explain how humans depend on and impact ocean systems.								
What is falling from the sky?			What is causing Iceland to tear apart?			How can washing your clothes impact our water resources?								
	0.5	1		0.5	1		0.5	1		0.5	1		0.5	1
1 Objects in the Solar System	3	6	1 Evidence of Earth's Change Over Time	3	6	1 Surface Water	3	6	1 Surface Water	3	6			
2 Gravity and Motion in the Solar System	3	6	2 Plate Tectonics and Earth's Surface	3	6	2 Groundwater	3	6	2 Groundwater	3	6			
3 Life and Earth	3	6	3 Earthquakes	3	6	3 The Importance of the Ocean	3	6	3 The Importance of the Ocean	3	6			
			4 Volcanoes	3	6									
	1	1.5		1	1.5		1	1.5		1	1.5			
	10.5	20.5		13.5	26.5		10.5	20.5		10.5	20.5			



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GOT MORE TIME? Use the activities with a plus sign to personalize student learning. +

	TOPIC 7 Body Systems: Organization, Communication, and Movement	✓	+	TOPIC 8 Body Systems: Energy and Defense	✓	+
Overview	Students will describe the hierarchical organization in plants and animals and identify and model the main functions of the nervous, endocrine, reproductive, skeletal, and muscular systems.			Students will identify and model the main functions of the circulatory, respiratory, digestive, urinary, integumentary, and immune systems.		
Anchoring Phenomenon	How do dancers use their different body systems to perform?			How do athletes know when their body is ready to compete?		
Topic Launch		0.5	1		0.5	1
Experiences	1 Organization in Plants and Animals	3	6	1 The Circulatory and Respiratory Systems	3	6
	2 The Nervous System	3	6	2 The Digestive and Urinary Systems	3	6
	3 The Endocrine and Reproductive Systems	3	6	3 The Integumentary and Immune Systems	3	6
	4 The Skeletal and Muscular Systems	3	6			
Topic Wrap-up		1	1.5		1	1.5
TOTAL PERIODS		13.5	26.5		10.5	20.5



TOPIC 9 Inheritance and Changes in Populations			TOPIC 10 Classification			TOPIC 11 Matter and Energy in Ecosystems		
✓			✓			✓		
+			+			+		
Students will compare the results of asexual and sexual reproduction and describe and give examples of how natural and artificial selection change the occurrence of traits.			Students will describe the taxonomic system that categorizes organisms and the characteristics and importance of kingdoms in ecosystems.			Students will diagram the flow of energy, describe how energy decreases in energy pyramids, and describe how ecosystems are sustained by energy and matter.		
Why doesn't this animal look like either of its parents?			Why isn't Earth covered in waste?			How does the Texas Plains ecosystem depend on the ocelot?		
	0.5	1		0.5	1		0.5	1
1 How Traits Are Passed	3	6	1 Taxonomy	3	6	1 Energy Flow in Ecosystems	3	6
2 How Populations Change	3	6	2 Archaea, Bacteria, and Ecosystems	3	6	2 Cycles of Matter	3	6
			3 Eukarya and Ecosystems	3	6			
	1	1.5		1	1.5		1	3
	7.5	14.5		10.5	20.5		7.5	14.5