

5th Grade TEKS Year-at-a-Glance

This year-at-a-glance is designed to cover 150 school days. Use your local guidelines to determine how to address the standards in the time you have.

Unit 1: Matter (16 days)

- TEKS.5.6A Compare & Contrast Matter
- TEKS.5.6D Illustrating Particles of Matter

Unit 2: Mixtures & Solutions (16 days)

- TEKS.5.6B Properties of Mixtures
- TEKS.5.6C Properties of Solutions

Unit 3: Force & Motion (16 days)

- TEKS.5.7A Equal & Unequal Forces
- TEKS.5.7B Test Force Effects in a System

Unit 4: Energy (16 days)

- TEKS.5.8A Describe Energy Transformations
- TEKS.5.8B Electrical Circuits

Unit 5: Light (8 days)

TEKS.5.8C - How Light Travels

Unit 6: Space (8 days)

• TEKS.5.9 - Day & Night Cycle

Unit 7: Water Cycle (8 days)

• TEKS.5.10A - Sun & Ocean Interactions

Unit 8: Earth Science (16 days)

- TEKS.5.10B Sedimentary Rock Formation
- TEKS.5.10C Modeling Landform Formation

Unit 9: Natural Resources and the Environment (8 days)

TEKS.5.11 - Minimizing Environmental Impact

Unit 10: Ecosystems (22 days)

- TEKS.5.12A Biotic & Abiotic Interactions
- TEKS.5.12B Predicting Changes in Ecosystems
- TEKS.5.12C Human Activities & Ecosystems

Unit 11: Structures & Behaviors (16 days)

- TEKS.5.13A Organism Structures & Functions
- TEKS.5.13B Behavioral Traits

Unit 1: Matter

Content Standards:

- TEKS.5.6A compare and contrast matter based on measurable, testable, or observable physical properties, including mass, magnetism, relative density (sinking and floating using water as a reference point), physical state (solid, liquid, gas), volume, solubility in water, and the ability to conduct or insulate thermal energy and electric energy
- TEKS.5.6D illustrate how matter is made up of particles that are too small to be seen such as air in a balloon

Suggested Recurring Themes:

- TEKS.5.5C use scale, proportion, and quantity to describe, compare, or model different systems
- TEKS.5.5E investigate how energy flows and matter cycles through systems and how matter is conserved

Suggested Science and Engineering Practices:

- TEKS.5.1G develop and use models to represent phenomena, objects, and processes or design a prototype for a solution to a problem
- TEKS.5.3A develop explanations and propose solutions supported by data and models
- TEKS.5.4B research and explore resources such as museums, libraries, professional organizations, private companies, online platforms, and mentors employed in a science, technology, engineering, and mathematics (STEM) field to investigate STEM careers

- matter
- physical properties
- mass
- magnetism
- physical state
- volume
- relative density
- solubility
- conductivity
- insulate

- atom
- molecules
- states of matter
- solid
- liquid
- gas
- model

Unit 1: Matter

Day 1	Day 2	Day 3	Day 4	Day 5
TEKS.5.6A Compare & Contrast Matter Engagement	TEKS.5.6A Compare & Contrast Matter Station Lab - Input Stations	TEKS.5.6A Compare & Contrast Matter Station Lab - Output Stations	TEKS.5.6A Compare & Contrast Matter Presentation and Paper INB	TEKS.5.6A Compare & Contrast Matter Presentation and Paper INB
				TEKS.5.6A Classifying Matter WIKI Ticket
Day 6	Day 7	Day 8	Day 9	Day 10
TEKS.5.6A Compare & Contrast Matter Student Choice	TEKS.5.6A Compare & Contrast Matter Student Choice	TEKS.5.6A Compare & Contrast Matter Student Choice	TEKS.5.6A Compare & Contrast Matter Assessment	TEKS.5.6D Illustrating Particles of Matter Engagement
Day 11	Day 12	Day 13	Day 14	Day 15
TEKS.5.6D Illustrating Particles of Matter Station Lab - Input Stations	TEKS.5.6D Illustrating Particles of Matter Station Lab - Output Stations	TEKS.5.6D Illustrating Particles of Matter Presentation and Paper INB	TEKS.5.6D Illustrating Particles of Matter Presentation and Paper INB TEKS.5.6D Particles of Matter WIKI Ticket	TEKS.5.6D Particles of Matter Writing Prompt
Day 16				
TEKS.5.6D Illustrating Particles of Matter Assessment				

Unit 2: Mixtures & Solutions

Content Standards:

Standards

- TEKS.5.6D demonstrate and explain that some mixtures maintain physical properties of their substances such as iron filings and sand or sand and water
- TEKS.5.6C compare the properties of substances before and after they are combined into a solution and demonstrate that matter is conserved in solutions

Suggested Recurring Themes:

- TEKS.5.5E investigate how energy flows and matter cycles through systems and how matter is conserved
- TEKS.5.5G explain how factors or conditions impact stability and change in objects, organisms, and systems

Suggested Science and Engineering Practices:

- TEKS.5.2A identify advantages and limitations of models such as their size, scale, properties, and materials
- TEKS.5.2C use mathematical calculations to compare patterns and relationships
- TEKS.5.3A develop explanations and propose solutions supported by data and models

Key Vocabulary

- mixture
- physical property
- sorting

sifting

- evaporation
- solution
- matter
- conserved

filtration

Unit 2: Mixtures & Solutions

Day 1	Day 2	Day 3	Day 4	Day 5
TEKS.5.6B Properties of Mixtures Engagement	TEKS.5.6B Properties of Mixtures Station Lab - Input Stations	TEKS.5.6B Properties of Mixtures Station Lab - Output Stations	TEKS.5.6B Properties of Mixtures Presentation and Paper INB	TEKS.5.6B Properties of Mixtures Presentation and Paper INB TEKS.5.6B Mixtures WIKI Ticket
Day 6	Day 7	Day 8	Day 9	Day 10
TEKS.5.6B Mixtures Writing Prompt	TEKS.5.6B Properties of Mixtures Assessment	TEKS.5.6C Properties of Solutions Engagement	TEKS.5.6C Properties of Solutions Station Lab - Input Stations	TEKS.5.6C Properties of Solutions Station Lab - Output Stations
Day 11	Day 12	Day 13	Day 14	Day 15
TEKS.5.6C Properties of	TEKS.5.6C Properties of Solutions	TEKS.5.6C Properties of Solutions Student	TEKS.5.6C Properties of Solutions Student	TEKS.5.6C Properties of Solutions Student Choice
Solutions Presentation and Paper INB	Presentation and Paper INB TEKS.5.6C Solutions WIKI Ticket	Choice	Choice	
Presentation and	Paper INB TEKS.5.6C Solutions WIKI	Choice	Choice	

Unit 3: Force & Motion

Content Standards:

Standards

- TEKS.5.7A investigate and explain how equal and unequal forces acting on an object cause patterns of motion and transfer of energy
- TEKS.5.7B design a simple experimental investigation that tests the effect of force on an object in a system such as a car on a ramp or a balloon rocket on a string

Suggested Recurring Themes:

- TEKS.5.5B identify and investigate cause-and-effect relationships to explain scientific phenomena or analyze problems
- TEKS.5.5E investigate how energy flows and matter cycles through systems and how matter is conserved

Suggested Science and Engineering Practices:

- TEKS.5.1A ask questions and define problems based on observations or information from text, phenomena, models, or investigations
- TEKS.5.2B analyze data by identifying any significant features, patterns, or sources of error

- force
- equal force
- unequal force
- pattern
- energy transfer
- experiment
- investigation
- observation

- independent variable
- dependent variable
- trial
- applied force
- gravity
- friction
- magnetism

Unit 3: Force & Motion

Day 1	Day 2	Day 3	Day 4	Day 5
TEKS.5.7A Equal & Unequal Forces Engagement	TEKS.5.7A Equal & Unequal Forces Station Lab - Input Stations	TEKS.5.7A Equal & Unequal Forces Station Lab - Output Stations	TEKS.5.7A Equal & Unequal Forces Presentation and Paper INB	TEKS.5.7A Equal & Unequal Forces Presentation and Paper INB
Day 6	Day 7	Day 8	Day 9	Day 10
TEKS.5.7A Equal & Unequal Forces Student Choice	TEKS.5.7A Equal & Unequal Forces Student Choice	TEKS.5.7A Equal & Unequal Forces Student Choice	TEKS.5.7A Equal & Unequal Forces Assessment	TEKS.5.7B Test Force Effects in a System Engagement
Day 11	Day 12	Day 13	Day 14	Day 15
TEKS.5.7B Test Force Effects in a System Station Lab - Input Stations	TEKS.5.7B Test Force Effects in a System Station Lab - Output Stations	TEKS.5.7B Test Force Effects in a System Presentation and Paper INB	TEKS.5.7B Test Force Effects in a System Presentation and Paper INB TEKS.5.7B Testing Forces WIKI Ticket	TEKS.5.7B Testing Forces Writing Prompt
Day 16				

Unit 4: Energy

Content Standards:

- TEKS.5.8A investigate and describe the transformation of energy in systems such as energy in a flashlight battery that changes from chemical energy to electrical energy to light energy
- TEKS.5.8B demonstrate that electrical energy in complete circuits can be transformed into motion, light, sound, or thermal energy and identify the requirements for a functioning electrical circuit

Suggested Recurring Themes:

- TEKS.5.5D examine and model the parts of a system and their interdependence in the function of the system
- TEKS.5.5E investigate how energy flows and matter cycles through systems and how matter is conserved

Suggested Science and Engineering Practices:

- TEKS.5.1B use scientific practices to plan and conduct descriptive and simple experimental investigations and use engineering practices to design solutions to problems
- TEKS.5.3B communicate explanations and solutions individually and collaboratively in a variety of settings and formats

- energy transformation
- system
- mechanical energy
- chemical energy
- electrical energy
- thermal energy
- sound energy
- electricity

- closed circuit
- open circuit
- path
- load
- switch
- energy source
- insulator
- conductor

Unit 4: Energy

Day 1	Day 2	Day 3	Day 4	Day 5
TEKS.5.8A Describe Energy Transformations Engagement	TEKS.5.8A Describe Energy Transformations Station Lab - Input Stations	TEKS.5.8A Describe Energy Transformations Station Lab - Output Stations	TEKS.5.8A Describe Energy Transformations Presentation and Paper INB	TEKS.5.8A Describe Energy Transformations Presentation and Paper INB
Day 6	Day 7	Day 8	Day 9	Day 10
TEKS.5.8A Describe Energy Transformations Student Choice	TEKS.5.8A Describe Energy Transformations Student Choice	TEKS.5.8A Describe Energy Transformations Student Choice	TEKS.5.8A Describe Energy Transformations Assessment	TEKS.5.8B Electrical Circuits Engagement
Day 11	Day 12	Day 13	Day 14	Day 15
TEKS.5.8B Electrical Circuits Station Lab - Input Stations	TEKS.5.8B Electrical Circuits Station Lab - Output Stations	TEKS.5.8B Electrical Circuits Presentation and Paper INB	TEKS.5.8B Electrical Circuits Presentation and Paper INB TEKS.5.8B Closed Circuits WIKI Ticket	TEKS.5.8B Closed Circuits Writing Prompt
Day 16	4			
TEKS.5.8B Electrical Circuits Assessment				

Unit 5: Light

Content Standards:

• TEKS.5.8C - demonstrate and explain how light travels in a straight line and can be reflected, refracted, or absorbed

Suggested Recurring Themes:

• TEKS.5.5F - explain the relationship between the structure and function of objects, organisms, and systems

Suggested Science and Engineering Practices:

• TEKS.5.2D - evaluate experimental and engineering designs

Key Vocabulary

- light
- medium

- refraction
- absorption

reflection

Unit 5: Light

Day 1	Day 2	Day 3	Day 4	Day 5
TEKS.5.8C How Light Travels Engagement	TEKS.5.8C How Light Travels Station Lab - Input Stations	TEKS.5.8C How Light Travels Station Lab - Output Stations	TEKS.5.8C How Light Travels Presentation and Paper INB	TEKS.5.8C How Light Travels Presentation and Paper INB TEKS.5.8C Reflection & Refraction WIKI Ticket
Day 6	Day 7	Day 8		
TEKS.5.8C How Light Travels Student Choice	TEKS.5.8C How Light Travels Student Choice	TEKS.5.8C How Light Travels Assessment		

Unit 6: Space

Content Standards:

 TEKS.5.9 - demonstrate that Earth rotates on its axis once approximately every 24 hours and explain how that causes the day/night cycle and the appearance of the Sun moving across the sky, resulting in changes in shadow positions and shapes

Suggested Recurring Themes:

• TEKS.5.5A - identify and use patterns to explain scientific phenomena or to design solutions

Suggested Science and Engineering Practices:

• TEKS.5.2C - use mathematical calculations to compare patterns and relationships

- axis
- rotation
- day

- night
- shadow
- horizon

Unit 6: Space

Unit 7: Water Cycle

Content Standards:

• TEKS.5.10A - explain how the Sun and the ocean interact in the water cycle and affect weather

Suggested Recurring Themes:

• TEKS.5.5D - examine and model the parts of a system and their interdependence in the function of the system

Suggested Science and Engineering Practices:

• TEKS.5.1A - ask questions and define problems based on observations or information from text, phenomena, models, or investigations

- states of matter
- water cycle
- evaporation
- precipitation
- condensation

- transpiration
- groundwater
- runoff
- water vapor

Unit 7: Water Cycle

Day 1	Day 2	Day 3	Day 4	Day 5
TEKS.5.10A Sun & Ocean Interactions Engagement	TEKS.5.10A Sun & Ocean Interactions Station Lab - Input Stations	TEKS.5.10A Sun & Ocean Interactions Station Lab - Output Stations	TEKS.5.10A Sun & Ocean Interactions Presentation and Paper INB	TEKS.5.10A Sun Ocean Interaction Presentation and Paper INB TEKS.5.10A Wate Cycle WIKI Ticket
Day 6	Day 7	Day 8		•
TEKS.5.10A Sun & Ocean Interactions Student Choice	TEKS.5.10A Sun & Ocean Interactions Student Choice	TEKS.5.10A Sun & Ocean Interactions Assessment		

Unit 8: Earth Science

Content Standards:

Standards

- TEKS.5.10B model and describe the processes that led to the formation of sedimentary rocks and fossil fuels
- TEKS.5.10C model and identify how changes to Earth's surface by wind, water, or ice result in the formation of landforms, including deltas, canyons, and sand dunes

Suggested Recurring Themes:

- TEKS.5.5A identify and use patterns to explain scientific phenomena or to design solutions
- TEKS.5.5D examine and model the parts of a system and their interdependence in the function of the system

Suggested Science and Engineering Practices:

 TEKS.5.1G - develop and use models to represent phenomena, objects, and processes or design a prototype for a solution to a problem

Key Vocabulary

- sedimentary rock
- weathering
- erosion
- deposition
- compaction

canyons

sand dunes

landforms

- deltas
- u-shaped valleys

cementation

Unit 8: Earth Science

Day 2	Day 3	Day 4	Day 5
TEKS.5.10B Sedimentary Rock Formation Station Lab - Input Stations	TEKS.5.10B Sedimentary Rock Formation Station Lab - Output Stations	TEKS.5.10B Sedimentary Rock Formation Presentation and Paper INB	TEKS.5.10B Sedimentary Rock Formation Presentation and Paper INB
			TEKS.5.10B Sedimentary Rocks & Fossil Fuels WIKI Ticket
Day 7	Day 8	Day 9	Day 10
TEKS.5.10B Sedimentary Rock Formation Student Choice	TEKS.5.10B Sedimentary Rock Formation Student Choice	TEKS.5.10B Sedimentary Rock Formation Assessment	TEKS.5.10C Modeling Landform Formation Engagement
Day 12	Day 13	Day 14	Day 15
TEKS.5.10C Modeling Landform Formation Station Lab - Output Stations	TEKS.5.10C Modeling Landform Formation Presentation and Paper INB	TEKS.5.10C Modeling Landform Formation Presentation and Paper INB TEKS.5.10C Changes to Earth's Surface WIKI Ticket	TEKS.5.10C Changes to Earth's Surface Writing Prompt
	TEKS.5.10B Sedimentary Rock Formation Station Lab - Input Stations Day 7 TEKS.5.10B Sedimentary Rock Formation Student Choice Day 12 TEKS.5.10C Modeling Landform Formation Station Lab - Output	TEKS.5.10B Sedimentary Rock Formation Station Lab - Input StationsTEKS.5.10B Sedimentary Rock Formation Station Lab - Output StationsDay 7Day 8TEKS.5.10B Sedimentary Rock Formation Student ChoiceTEKS.5.10B Sedimentary Rock Formation Student ChoiceDay 12Day 13TEKS.5.10C Modeling Landform Formation Station Lab - OutputTEKS.5.10C Modeling Landform Formation and	TEKS.5.10B Sedimentary Rock Formation Station Lab - Input StationsTEKS.5.10B Sedimentary Rock Formation Station Lab - Output StationsTEKS.5.10B Sedimentary Rock Formation and Paper INBDay 7Day 8Day 9TEKS.5.10B Sedimentary Rock Formation StationsTEKS.5.10B Sedimentary Rock Formation Station Sedimentary Rock Formation Student ChoiceDay 9TEKS.5.10B Sedimentary Rock Formation Student ChoiceTEKS.5.10B Sedimentary Rock Formation Student ChoiceDay 9TEKS.5.10B Sedimentary Rock Formation Student ChoiceTEKS.5.10B Sedimentary Rock Formation Student ChoiceTEKS.5.10B Sedimentary Rock Formation Student ChoiceDay 12Day 13Day 14TEKS.5.10C Modeling Landform Formation Station Lab - Output StationsTEKS.5.10C Modeling Landform Formation and Paper INBTEKS.5.10C Modeling Landform Formation and Paper INBTEKS.5.10C Changes to Earth's Surface WIKITEKS.5.10C Changes to Earth's Surface WIKI

Unit 9: Natural Resources and the Environment

Content Standards:

• TEKS.5.11 - design and explain solutions such as conservation, recycling, or proper disposal to minimize environmental impact of the use of natural resources

Suggested Recurring Themes:

 TEKS.5.5B - identify and investigate cause-and-effect relationships to explain scientific phenomena or analyze problems

Suggested Science and Engineering Practices:

- TEKS.5.1B use scientific practices to plan and conduct descriptive and simple experimental investigations and use engineering practices to design solutions to problems
- TEKS.5.4A explain how scientific discoveries and innovative solutions to problems impact science and society

- renewable
- nonrenewable
- resources
- efficient
- conserve

- reuseable
- recycling
- disposal
- environmental impacts
- landfills

Unit 9: Natural Resources and the Environment

Day 1	Day 2	Day 3	Day 4	D
TEKS.5.11 Minimizing Environmental Impact Engagement	TEKS.5.11 Minimizing Environmental Impact Station Lab - Input Stations	TEKS.5.11 Minimizing Environmental Impact Station Lab - Output Stations	TEKS.5.11 Minimizing Environmental Impact Presentation and Paper INB	TEKS.5.1 Minimizin Environm Impact Presentat Paper INI
Day 6	Day 7	Day 8		
TEKS.5.11 Minimizing Environmental Impact Student Choice	TEKS.5.11 Minimizing Environmental Impact Student Choice	TEKS.5.11 Minimizing Environmental Impact Assessment		

Unit 10: Ecosystems

Content Standards:

- TEKS.5.12A observe and describe how a variety of organisms survive by interacting with biotic and abiotic factors in a healthy ecosystem
- TEKS.5.12B predict how changes in the ecosystem affect the cycling of matter and flow of energy in a food web
- TEKS.5.12C describe a healthy ecosystem and how human activities can be beneficial or harmful to an ecosystem

Suggested Recurring Themes:

- TEKS.5.5A identify and use patterns to explain scientific phenomena or to design solutions
- TEKS.5.5D examine and model the parts of a system and their interdependence in the function of the system
- TEKS.5.5G explain how factors or conditions impact stability and change in objects, organisms, and systems

Suggested Science and Engineering Practices:

- TEKS.5.2B analyze data by identifying any significant features, patterns, or sources of error
- TEKS.5.1G develop and use models to represent phenomena, objects, and processes or design a prototype for a solution to a problem
- TEKS.5.1A ask questions and define problems based on observations or information from text, phenomena, models, or investigations

- organism
- abiotic
- biotic
- ecosystem
- matter

- energy
- food web
- beneficial
- harmful
- pollutants

Day 1	Day 2	Day 3	Day 4	Day 5
TEKS.5.12A Biotic & Abiotic Interactions Engagement	TEKS.5.12A Biotic & Abiotic Interactions Station Lab - Input Stations	TEKS.5.12A Biotic & Abiotic Interactions Station Lab - Output Stations	TEKS.5.12A Biotic & Abiotic Interactions Presentation and Paper INB	TEKS.5.12A Biotic & Abiotic Interactions Presentation and Paper INB
Day 6	Day 7	Day 8	Day 9	Day 10
TEKS.5.12A Biotic & Abiotic Interactions Assessment	TEKS.5.12B Predicting Changes in Ecosystems Engagement	TEKS.5.12B Predicting Changes in Ecosystems Station Lab - Input Stations	TEKS.5.12B Predicting Changes in Ecosystems Station Lab - Output Stations	TEKS.5.12B Predicting Changes in Ecosystems Presentation and Paper INB
Day 11	Day 12	Day 13	Day 14	Day 15
TEKS.5.12B Predicting Changes in Ecosystems Presentation and Paper INB TEKS.5.12B Changes in Ecosystems WIKI Ticket	TEKS.5.12B Changes in Ecosystems Writing Prompt	TEKS.5.12B Predicting Changes in Ecosystems Assessment	TEKS.5.12C Human Activities & Ecosystems Engagement	TEKS.5.12C Human Activities & Ecosystems Station Lab - Input Stations



Day 16	Day 17	Day 18	Day 19	Day 20
TEKS.5.12C Human Activities & Ecosystems Station Lab - Output Stations	TEKS.5.12C Human Activities & Ecosystems Presentation and Paper INB	TEKS.5.12C Human Activities & Ecosystems Presentation and Paper INB	TEKS.5.12C Human Activities & Ecosystems Student Choice	TEKS.5.12C Human Activities & Ecosystems Student Choice
Day 21				
TEKS.5.12C Human Activities & Ecosystems Assessment				

Content Standards:

- TEKS.5.13A analyze the structures and functions of different species to identify how organisms survive in the same environment; and
- TEKS.5.13B explain how instinctual behavioral traits such as turtle hatchlings returning to the sea and learned behavioral traits such as orcas hunting in packs increase chances of survival

Suggested Recurring Themes:

• TEKS.5.5D - examine and model the parts of a system and their interdependence in the function of the system

Suggested Science and Engineering Practices:

- TEKS.5.3A develop explanations and propose solutions supported by data and models
- TEKS.5.3C listen actively to others' explanations to identify relevant evidence and engage respectfully in scientific discussion

- organism
- structure
- function
- behavior
- habitat

- environment
- instinct
- learned behaviors
- trait
- migrate

Day 1	Day 2	Day 3	Day 4	Day 5
TEKS.5.13A Organism Structures & Functions Engagement	TEKS.5.13A Organism Structures & Functions Station Lab - Input Stations	TEKS.5.13A Organism Structures & Functions Station Lab - Output Stations	TEKS.5.13A Organism Structures & Functions Presentation and Paper INB	TEKS.5.13A Organism Structures & Functions Presentation and Paper INB TEKS.5.13A Structures & Behaviors WIKI Ticket
Day 6	Day 7	Day 8	Day 9	Day 10
TEKS.5.13A Structures & Behaviors Writing Prompt	TEKS.5.13A Organism Structures & Functions Assessment	TEKS.5.13B Behavioral Traits Engagement	TEKS.5.13B Behavioral Traits Station Lab - Input Stations	TEKS.5.13B Behavioral Traits Station Lab - Output Stations
Day 11	Day 12	Day 13	Day 14	Day 15
TEKS.5.13B Behavioral Traits Presentation and Paper INB	TEKS.5.13B Behavioral Traits Presentation and Paper INB TEKS.5.13B Traits & Behaviors WIKI Ticket	TEKS.5.13B Behavioral Traits Student Choice	TEKS.5.13B Behavioral Traits Student Choice	TEKS.5.13B Behavioral Traits Student Choice
Day 16				