



SUMMIT K12

# 2024

## 3<sup>RD</sup> - 5<sup>TH</sup> DYNAMIC SCIENCE

Empowering ALL Texas Learners to Reach their Summit

**Built By Texas Educators  
For Texas Educators**

Texas based publisher with curricula  
created by over 75 current and former  
Texas educators

**Built for Texas  
TEKS-SEPs-RTCs-ELPS**

**Ready to  
Learn More?**

Scan the QR code  
to visit our website



# Kate the Chemist

## 3rd-5th Video Series



Summit K12 has teamed up with UT Austin Professor and best-selling children's author, Dr. Kate Biberdorf, to create Phenomena-based videos specifically for the 2024 Science TEKS.

- K-12 Phenomena-Based Videos
- Teacher Pre-Lab Prep Videos
- Student Pre-Lab Videos
- Full Length Virtual Science Lab Videos

## 3rd-5th Texas Virtual Field Investigations

ALL 3rd-5th students will have the opportunity to investigate phenomena throughout dozens of the most popular state parks and engineering marvels in Texas.

The 2024 TEKS Virtual Field Investigations series was created specifically for the Texas Science Adoption.

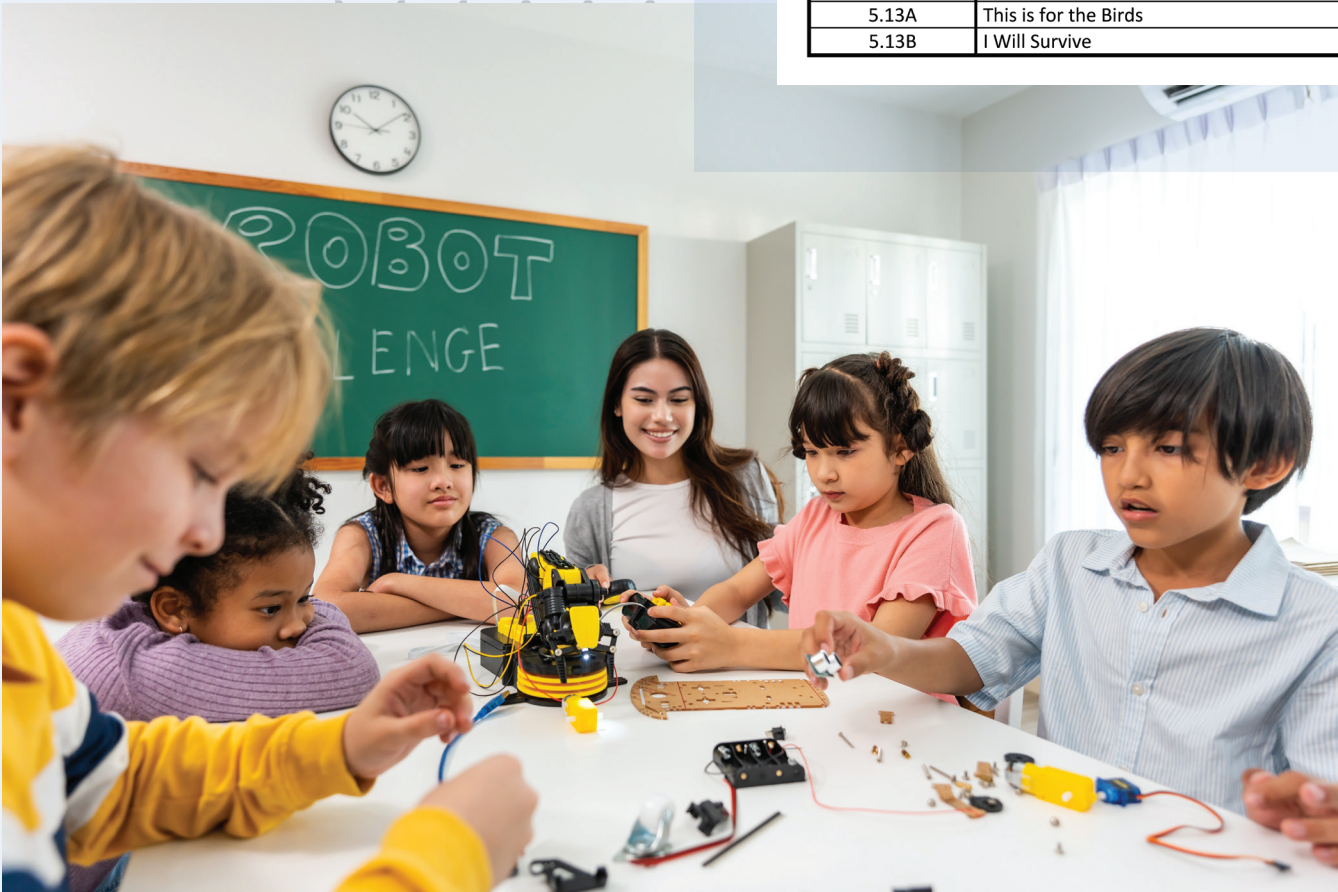


# Hands on Investigations and Explorations

Investigations that support students figuring out concepts through phenomena.

## Lab Explorations – 5<sup>th</sup> Grade






















































TEKS	Name of Lab
5.6A	Now You See It, Now You Don't
5.6B	In the Mix of Things
5.6C	The Solution to the Problem
5.6D	It's a Small, Small World
5.7A	A Show of Force
5.7B	When the Rubber Meets the Road
5.8A	One Thing Leads to Another
5.8B	Go With the Flow
5.8C	I See the Light
5.9A	As the World Turns
5.10A	Water, Water, Everywhere
5.10B1	Rock of Ages
5.10B2	Bone Deep in Fossils
5.10C	This Land is My Land
5.11A	Compost in Bottle
5.12A	You Can Count On Me
5.12B	Follow the Yellow Brick Road
5.12C	When the Cows Come Home
5.13A	This is for the Birds
5.13B	I Will Survive





# Concise and Complete Teacher Supports

**Reporting Category 4: Organisms and Environments**

TEKS	Title	Lesson Guide	Study Guide		Lab		E-Poster	Interactive E-Poster
			Student	Key	Student	Key		
<b>5.12A</b>	<b>Ecosystem</b>							
 4.12A	Producers							
 4.12C	Fossil Evidence of Past Environments							
<b>5.12B</b>	<b>Energy in a Food Web</b>							
 4.12B	Food Webs							
 3.12B	Changes in a Food Chain							
<b>5.12C</b>	<b>Human Activities in an Ecosystem</b>							

TEKS Scaffold

TEXAS—5<sup>th</sup> Grade

## Teacher Supports Include:

- Lesson and Lab Guides
- Scope and Sequence
- Pacing Guides
- Reports and Dashboards
- Anchoring Phenomena Table
- 3D Teaching and Learning
- Image Bank
- Science E-Books
- Formative Assessments
- Year-Round Responsive Support
- Asynchronous Online Teacher Training
- Zoom and Onsite Professional Learning

**ROBUST  
ASSESSMENT  
BANK INCLUDING  
NEW ITEM  
TYPES**

# E-Poster and High Quality TEKS Lesson Videos

## Analyzing Animal Structures

What structures help this animal survive in its environment?  
What is the function or purpose of each structure?



The Barred owl possesses long and rounded wings with feathers that allow them to fly without making any noise.

Their toes have sharp, curved talons for quickly picking up prey when in flight.

They also use their color to camouflage against predators.

IN  
ENGLISH  
AND  
SPANISH

## Structures and Functions for Living and Survival

Animal \_\_\_\_\_ and \_\_\_\_\_



- ◆ fur - \_\_\_\_\_ in snow; stay warm
- ◆ front facing eyes - to see prey



- ◆ \_\_\_\_\_ - to graze all day for food
- ◆ ears - to listen for predators; flexible, round ears can turn in almost all directions



- ◆ \_\_\_\_\_ - to move quickly through the water
- ◆ waterproof feathers - to stay dry in water

Plant \_\_\_\_\_ and \_\_\_\_\_



- ◆ spines - to keep predators away
- ◆ \_\_\_\_\_ - to retain water



- ◆ flowers - to attract pollinators
- ◆ \_\_\_\_\_ - to protect plants



- ◆ brightly colored \_\_\_\_\_ attracts pollinators
- ◆ small leaves to reduce water loss

adaptation  
camouflage

environment  
function

hooves  
species

structure  
survival

webbed feet

TEXAS-5<sup>th</sup> Grade

# Science Literacy

Seamlessly Blend the 2024 Science TEKS, SEPs, ELAR TEKS, and ELPS into single Science-Literacy lessons.

**Differentiated Science Literacy**

Science Literacy Teacher's Guide

Filter by Category: All

CAT	Title	Science TEKS	Comprehension Strategy	Read eBook	Science Quiz	RLA Quiz	Lock/Unlock
1	Matter in a Frozen Land	5.6A	Make Inferences	⌂ Start	⌂ Start	⌂ Start	🔒
1	Matter's Many Properties	4.6A	Make Inferences	⌂ Start	⌂ Start	⌂ Start	🔒
1	Describing Matter	3.6A	Make Inferences	⌂ Start	⌂ Start	⌂ Start	🔒
1	Matter, Matter, Everywhere	3.6A	Make Inferences	⌂ Start	⌂ Start	⌂ Start	🔒
1	Measuring Matter	3.6A	Make Inferences	⌂ Start	⌂ Start	⌂ Start	🔒
1	What is Matter?	3.6A	Make Inferences	⌂ Start	⌂ Start	⌂ Start	🔒
2	Explaining Motion	5.7A	Create Mental Images	⌂ Start	⌂ Start	⌂ Start	🔒
2	Force and Motion	5.7A	Create Mental Images	⌂ Start	⌂ Start	⌂ Start	🔒


**IN ENGLISH AND SPANISH**

Over 200 Science-Literacy E-books in K-8 written specifically for the 2024 State Science Adoption


- Written to the 2024 Science TEKS, RLA TEKS, SEPs, RTCs, and ELPS
- Includes Science/RLA study guides, Lesson Guides, and assessments
- Extend science instructional minutes during the RLA block
- K-12 Science Cognates organized by grade level and category
- Cross-curricular passages in 3rd-5th grades covering the RLA and Science TEKS and STAAR® blueprints
- Newcomer foundational Science-Literacy skills supporting 13 different home languages
- Science Writing including C.E.R. prompts and the NEW STAAR® Short- Constructed Response items

# Vocabulary Mastery

TEKS Content Vocabulary | Science Tools Vocabulary |  
SEPs & RTCs Vocabulary | Science Cognates




< >

 A/Ari ✓ Select  
domain  
abiotic  
communities  
**species**


of birds is the sulphur-crested cockatoo sitting on the branch in Australia.

○○○○○●○○○○



**species**  
especies  
noun

---

 A species is a group of organisms with same main characteristics that can produce fertile offspring.

IN  
ENGLISH  
AND  
SPANISH




< >

 Tornadoes and hurricanes are different types of


✓ Select  
**phenomena**  
physical properties  
buildings  
observations

●○○○○



**phenomena**  
fenómenos  
noun

---

 A phenomena is an observable event that can happen in nature.

## Image Bank

- 500-1,000 images per grade level/subject
- Minimum 15-25 images per content TEKS
- Images for all SEPs Vocabulary Words
- Images for all Science Tools Vocabulary

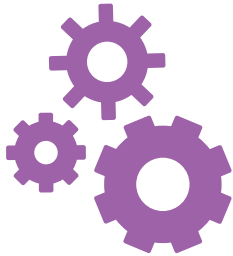
### Summit K12 Image Bank





# Teaching Science through Phenomena using the 3D Model

## Science TEKS Content Standards



## Scientific and Engineering Practices

## Recurring Themes and Concepts



## TEKS-SEPs-RTCs Crosswalk (5th Grade Example)

		SEPs	5th Grade Dynamic Science TEKS Lessons, Labs, Investigations, and Explore Activities																				Totals
Grade	Category	TEKS	5.6A	5.6B	5.6C	5.6D	5.7A	5.7B	5.8A	5.8B	5.8C	5.9A	5.10A	5.10B1	5.10B2	5.10C	5.11A	5.12A	5.12B	5.12C	5.13A	5.13B	by SEPs
5	Scientific and Engineering Practices	5.1A	Lab	Lab	Lab	X	Lab	Lab	Lab	Lab	Lab		Lab		Lab		Lab	Lab	Lab	Lab	Lab	Lab	17
5	Scientific and Engineering Practices	5.1B	X	Lab	X	X	Lab	Lab	Lab	Lab	X						Lab			Lab			11
5	Scientific and Engineering Practices	5.1C	X	X	X				X		Lab		X	X	X	X	Lab				X		11
5	Scientific and Engineering Practices	5.1D	Lab	Lab	X	X	X	Lab		Lab	Lab	X	X		X		SL	Lab			X	Lab	15
5	Scientific and Engineering Practices	5.1E	Lab	Lab	Lab		Lab	Lab	Lab	Lab	Lab		Lab		Lab		X	Lab			Lab	Lab	14
5	Scientific and Engineering Practices	5.1F	Lab	X	X	X	X	X	X	X	X		X	X	SL	X	X		X	X			16
5	Scientific and Engineering Practices	5.1G			X	Lab	X	X		X			Lab	X	Lab	X	Lab		Lab	Lab	Lab		13
5	Scientific and Engineering Practices	5.2A		SL			SL	SL		X	SL	X	Lab	X	X		X				SL		11
5	Scientific and Engineering Practices	5.2B		Lab	Lab		Lab	SL	Lab		SL		Lab				Lab	Lab	Lab	Lab	Lab		12
5	Scientific and Engineering Practices	5.2C		X	Lab		SL	X			SL					X	X		X	X	SL		10
5	Scientific and Engineering Practices	5.2D						X		Lab							X						3
5	Scientific and Engineering Practices	5.3A	X		X	X	Lab	X		X		X		X		X	Lab	Lab	X	X	X		14
5	Scientific and Engineering Practices	5.3B	X	X	X	X	Lab	X	X	X		X	X	X	Lab		Lab	X	X	X	X	Lab	18
5	Scientific and Engineering Practices	5.3C	X	X	Lab	X	Lab	X			Lab				X				Lab		X		10
5	Scientific and Engineering Practices	5.4A				X		X	X				X	X	X	X	X		X	SL	X		11
5	Scientific and Engineering Practices	5.4B	X			X			X	X		X		X	X								7
5	Recurring Themes and Concepts	5.5A		Lab	Lab		Lab				X	X	Lab	X		X	Lab		Lab		Lab	Lab	12
5	Recurring Themes and Concepts	5.5B		Lab	Lab	X	Lab		Lab		SL		Lab		Lab	X	Lab		Lab	Lab	Lab		13
5	Recurring Themes and Concepts	5.5C	X						SL			X			SL								4
5	Recurring Themes and Concepts	5.5D						X		X	SL						SL	Lab			SL		6
5	Recurring Themes and Concepts	5.5E					SL		X		SL		X				X	SL	X				7
5	Recurring Themes and Concepts	5.5F							X	X	X						SL	Lab	X	SL	Lab		8
5	Recurring Themes and Concepts	5.5G	X			X	X		SL								SL		Lab	Lab	SL		8
Totals by Content TEKS			12	13	14	12	16	15	14	13	15	7	13	9	13	8	20	9	14	13	17	4	251

### KEY

Lab	Lab Investigations
X	Inquiry or Explore Activity
SL	Science Literacy Process Skill or RTC