



SUMMIT K12

2024

K-2ND 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**

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Learn More?**

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to visit our website



Kate the Chemist

K-2nd 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-2nd Texas Virtual Field Investigations

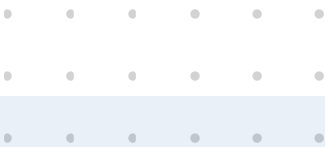
ALL K-2nd students will have the opportunity to investigate phenomena throughout dozens of the most popular state parks and engineering marvels in Texas.

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 – 1st Grade

TEKS	Name of Lab
1.6A	Mystery Bag
1.6B	Testing the Waters
1.6C	My Robot
1.7A	Cotton ball Race
1.7B	“Roll, Roll, Roll.”
1.8A	Heat Race
1.8B	Is It Reversible
1.9A	Trees Changing
1.10A	Properties of Soil
1.10B	Moving to a New Place
1.10C	Size, Color, and Clarity
1.10D	What’s the Weather
1.11A	Building With Rocks and Soil
1.11B	Rain, Rain, Come Again
1.11C	Pollution Solution
1.12A	Living or Not
1.12B	Interactions in My Aquarium
1.12C	Line it Up
1.13A	It’s My Body
1.13B	Life Cycles, Oh My!
1.13C	Oh, Baby!

Lab Instructions and details are included in the Lesson Guides for each TEKS.

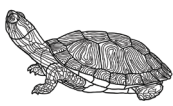






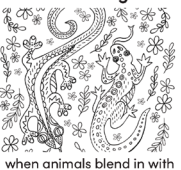


Concise and Complete Teacher Supports

Category 4: Organisms and Environments									
TEKS	Lesson Name	Lesson Guide	E-Poster	Vocabulary Flashcards, Boost and Key	Study Guide and Key	Teacher/ Student Inquiry Lab	TEKS Check-Up and Key	Interactive E-Poster	
2.12A	Physical Characteristics of Environments								
1.12A	Living and Nonliving								
1.12B	Aquariums and Terrariums								
2.12B	Food Chains								
1.12C	Identify Food Chains								
2.12C	Plants' Needs								
2.13A	Plant Structures								

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

<p>TEKS 2.13B Structures and Behaviors of Animals</p> <p>structures behaviors adapt migrate body coverings hibernate movement camouflage</p>	<p>structures</p>  <p>parts of a plant or animal that help it survive and reproduce</p>	<p>behaviors</p>  <p>the way a person or animal acts or behaves</p>
<p>adapt</p>  <p>to change behavior so that it is easier to live in a particular place or situation</p>	<p>migrate</p>  <p>to move from one region into another</p>	<p>body coverings</p>  <p>something that protects an animal's skin and organs</p>
<p>hibernate</p>  <p>to sleep through the winter; to save energy</p>	<p>movement</p>  <p>the act of moving from one place or position to another</p>	<p>camouflage</p>  <p>when animals blend in with their surroundings so they are not seen by other living things</p>


Flashcards | ©2022 Summit K12 Holdings, Inc.

Flashcards for each TEKS in English and Spanish


E-Poster and Interactive Study Guide





_____ need
Water
Sunlight
Space
Soil
Air



_____ need
Water
Sunlight
Space
Plants
Air







physical characteristics environment support animals ecosystem rainfall food source plants

IN
ENGLISH
AND
SPANISH

ON 1

Core Vocabulary

Select the correct Core Vocabulary from the drop-down menu to complete the sentence.



1. helps some animals hide when hunting for food and protects other animals from being hunted.



2. Feathers, skin, and fur are that can help an animal camouflage and not be seen by predators.

3. is an animal behavior where animals travel to new places in search of food.

migration
hibernate
body coverings
camouflage
movements



4. Animals use many different , like running, jumping, and flying to help them get the food they need or help them escape from predators.

5. Some animals, such as hedgehogs and squirrels, cannot find enough food during the winter season so they or sleep all winter.

Science Literacy

Seamlessly Blend the 2024 Science TEKS, SEPs, RLA TEKS, and ELPS.

5 of 24

TEXAS—2nd Grade

Body Coverings

Body coverings protect animals in their environments.



Shells protect an animal's body from an attack and the weather. Think about your house. What's on top of your house? A roof protects your house, just as a shell protects animals from their environment. Armadillos have hard shells made of bony plates. Did you know some armadillos can roll into a ball to avoid an attack?



Birds have feathers to help them fly, control their body temperature, and keep them warm and dry. Feathers close to the body fluff, creating a layer of warmth. Feathers are also waterproof, keeping birds dry.

TEKS 2.13B

IN
ENGLISH
AND
SPANISH

Over 60
Interactive
Science
E-books
in K-2nd

Hibernate

Hibernation is a long period of inactivity when animals go into a deep sleep-like state. Groundhogs, some bats, and squirrels hibernate during winter months when food is scarce. Before hibernation animals gain weight to store enough energy to last through the winter. During hibernation, their bodies conserve energy by slowing down.



TEKS 2.13B

Vocabulary Mastery

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



A woodpecker's ☒ Select
feathers
beak
feet is strong enough to break a tree's bark.



beaks

pico

noun



Beaks are the nose and mouth of a bird and are used mainly for eating.

Finish Attempt

IN
ENGLISH
AND
SPANISH



A hornet queen ☒ Select
hibernates
plays
lives in a tree trunk.



hibernate

hibernar

verb

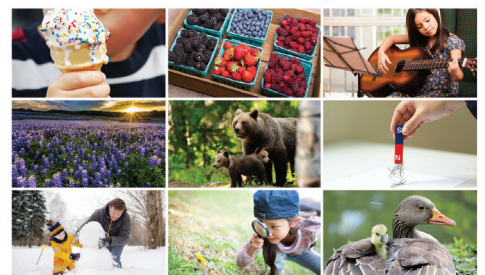


Hibernate is a way that some animals deal with the harshness of winter.

Image Bank

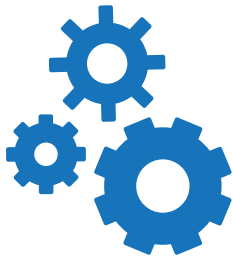
- 250-750 images per grade level/subject
- Minimum 6-10 images per content TEKS
- Images for all SEPs Vocabulary Words
- Images for all Science Tools Vocabulary

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 (2nd Grade Example)

Grade	Category	SEPs	2nd Grade Dynamic Science TEKS Lessons, Labs, Investigations, and Explore Activities																				Totals		
		TEKS	2.6A	2.6B	2.6C	2.7A	2.7B	2.8A	2.8B	2.8C	2.9A	2.9B	2.10A	2.10B	2.10C	2.11A	2.11B	2.12A	2.12B	2.12C	2.13A	2.13B	2.13C	2.13D	by SEPs
2	Scientific and engineering practices	2.1A	X	SL	X	SL	SL	SL	X	SL	X	X	SL	X	Lab	SL	Lab	SL	SL	SL	SL	SL	SL	SL	22
2	Scientific and engineering practices	2.1B	X	X	X	X	Lab	X	X	X	X	X	X				Lab								9
2	Scientific and engineering practices	2.1C		X	X	X	X	X	X	X	X	X	Lab	X	X	X	X	X	X	X	Lab	X	X	X	21
2	Scientific and engineering practices	2.1D	Lab	X		X						X		Lab						Lab	X			Lab	8
2	Scientific and engineering practices	2.1E	Lab	X				X			X	X	Lab										X	Lab	8
2	Scientific and engineering practices	2.1F		X		X		X	X		X	X	Lab			X	X				X	X	X	Lab	13
2	Scientific and engineering practices	2.1G			X		X				X	X		X	Lab	X				Lab					8
2	Scientific and engineering practices	2.2A			X		X			X	Lab														4
2	Scientific and engineering practices	2.2B	X	Lab				Lab	Lab		Lab	Lab	Lab	X	Lab	Lab	X	X			Lab	Lab		Lab	15
2	Scientific and engineering practices	2.2C		X		X								X											3
2	Scientific and engineering practices	2.2D			Lab		X			Lab				X											4
2	Scientific and engineering practices	2.3A		Lab	X		X	X	X	X	X	X					X			X			X	X	11
2	Scientific and engineering practices	2.3B			X			X	X					X	X			X		Lab	X	Lab	Lab	X	11
2	Scientific and engineering practices	2.3C	X	Lab		Lab	Lab		X	X		X	Lab	X	X	Lab		Lab		Lab		X	X	X	16
2	Scientific and engineering practices	2.4A			Lab		X				X				X		X								5
2	Scientific and engineering practices	2.4B								Lab			X	X											3
2	Recurring themes and concepts	2.5A	SL	SL			SL	SL	SL	SL	Lab	X	SL	X	X			SL	SL	SL	SL	SL	SL	X	18
2	Recurring themes and concepts	2.5B		Lab		X	Lab	Lab	Lab		X		X	X	Lab	X	Lab	X	X	X	X		X	X	17
2	Recurring themes and concepts	2.5C	Lab	X	X	X							X		X					Lab			X	X	9
2	Recurring themes and concepts	2.5D								Lab		Lab	X						Lab		Lab			Lab	6
2	Recurring themes and concepts	2.5E	X	X	X			X	X									X	X						7
2	Recurring themes and concepts	2.5F			Lab			X								Lab	X	X	Lab	Lab	Lab	Lab	Lab	Lab	11
2	Recurring themes and concepts	2.5G		Lab		Lab		X					Lab	Lab			X	X	Lab		X	X	X	X	12
Totals by Content TEKS			9	15	12	10	11	13	10	12	9	11	11	16	9	8	10	9	8	12	11	8	12	15	241

KEY

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