

# 2024

# **DYNAMIC** BIOLOGY

**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



Scan the QR code to visit our website



### Kate the Chemist K-12 Video Series



Summit K12 has teamed up with UT Austin Professor and best-selling science 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

## K-12 Texas Virtual Field Investigations

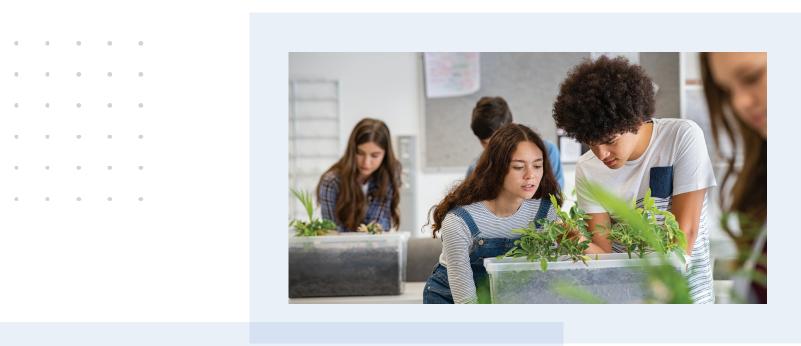
ALL K-12 students will have the opportunity to investigate phenomena throughout dozens of the most popular state parks and engineering marvels in Texas.

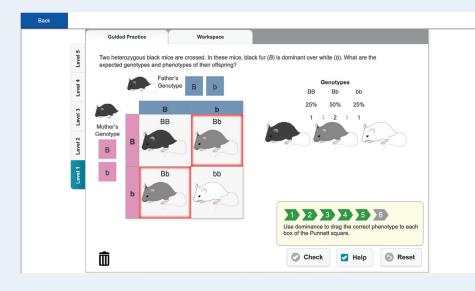
The 2024 TEKS Virtual Field Investigations series was created specifically for the Texas Science Adoption.



#### Hands on Investigations and Virtual Labs

Comparative, Descriptive, and Experimental Investigations to engage students and support sensemaking.



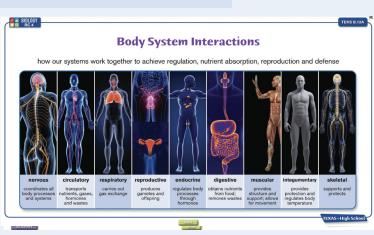


PIET SIMULATIONS

Includes Summit K12 Lab Guides developed to support the 2024 Science TEKS.

### **Concise and Complete Teacher Supports**

Unit	Lesson Name	Lesson Guide	PowerPoint	Study Guide and Key	E-Poster	Interactive E-Poster		
B.11A	Matter and Energy Flow in Photosynthesis and Respiration							
6.8B	Energy Transfers and Transformations							
B.11B	Role of Enzymes							
B.12A	Interactions Among Animal Systems					۲		
7.13A	Functions of Human Body Systems							
B.12B	Interactions Among Plant Systems							
8.6C	Behavior of Water							



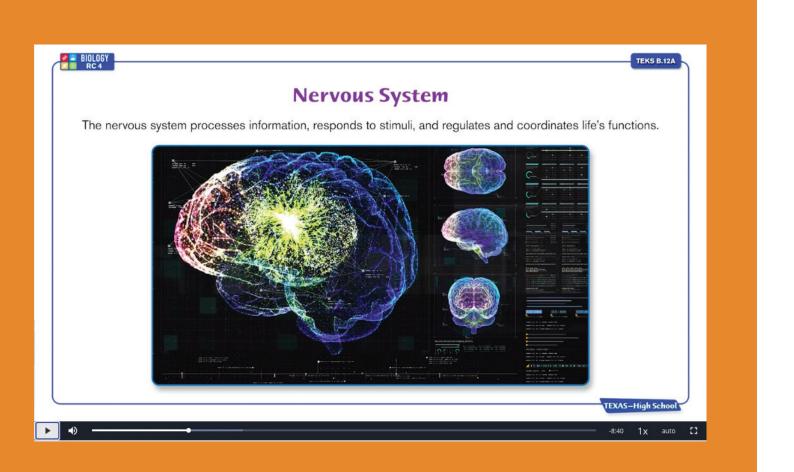
Interactive E-Poster Example

#### **Teacher Supports Include:**

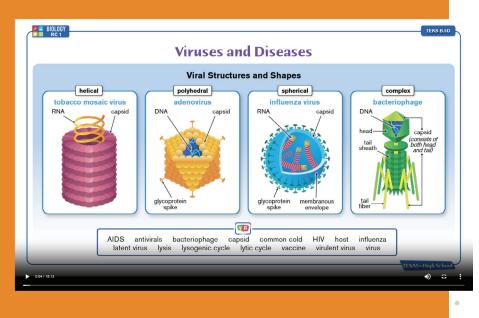
- Lesson and Lab Guides
- Scope and Sequence
- Pacing Guides
- Reports and Dashboards
- Anchoring Phenomena Table
- 3D Teaching and Learning

- Image Bank
- Assessment Bank
- Formative Assessments
- Year-Round Responsive Support
- Asynchronous Online Teacher Training
- Zoom and Onsite Professional Learning

# **High Quality TEKS Lesson Videos**



- 100% of the Biology Content TEKS and SEPs are supported with high quality Lesson Videos
- 100% of the Videos were specifically created for 2024 K-12 Science TEKS by Texas Science Educators and authors along with a team of Professional Documentary Film Editors and storytellers



#### Formative and Summative Assessments and Assessment Bank

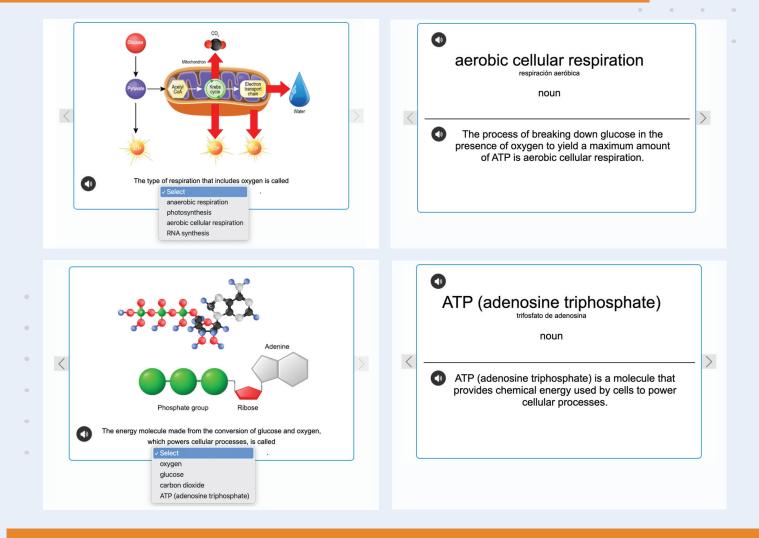
Create a Custom Assessment															
Assessme	Assessment Name: Dr. Kate's Natural Selection B.10A quiz														
Number of	Items: 10		ct Item Types: MC, MS, DD, SCR, MP												
Select TEM	(S to include:		% Dual-coded: 40%												
	RC1	RC2	RC3	R	C4	RC5									
	B.5A	B.7A	B.9A	B.1	11A	B.13A									
	B.5B	B.7B	B.9B	B.1	11B	B.13B									
	B.5C	B.7C	B.10A	<b>B</b> .1	12A	B.13C									
	B.5D	B.7D	B.10B	B.1	12B	B.13D									
	B.6A	B.8A	B.10C												
	B.6B	B.8B	B.10D												
	B.6C														
	Assessment appea ready to assign to		Assessment Bar	nk											
Date Cre	ated	Custom Assess	sment Name		Avg. Score	PLD	Assign								
9/28/2	Biomolecule	es Pre-Assessment			65%	Approache	s 🗊								
11/4/2	24 Cell Cycle a	and DNA Replication	Benchmark		87% Meets										
12/4/2	24 Disruptions	of the Cell Cycle Ex	tra Credit		92%	Masters									
1/12/2	0utcomes	of Genetic Combinat	ions		81%	Meets									
2/3/2	5 New STAA	R 2.0 Item types pra	ctice		90%	Masters	<b>(</b>								
> 3/2/2	5 Dr. Kate's N	Natural Selection B.1	0A quiz		Start		Ê								
Create New															

#### Includes the NEW STAAR® EOC 2.0 Items



# **Vocabulary Mastery**

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



#### 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





## Teaching Science through Phenomena using the 3D Model

#### Science TEKS Content Standards





#### Scientific and Engineering Practices

#### Recurring Themes and Concepts



#### **TEKS-SEPs-RTCs Crosswalk**

		SEPs	EPs Dynamic Biology TEKS Lessons, Labs, Investigations, and Explore Activities 1													Totals														
Subject	Category	TEKS	B.5A	B.5B	B.5C	B.5D	B.6A	B.6B	B.6C	B.7A	B.7B	B.7C	B.7D	B.8A	B.8B	B.9A	B.9B	B.10A	B.10B	B.10C	B.10D	B.11A	B.11B	B.12A	B.12B	B.13A	B.13B	B.13C	B.13D	by SEPs
в	Scientific and engineering practices	B.1A		x				x			х	х	х		x			х	х				х	х	х	х	х	х	х	15
в	Scientific and engineering practices	B.1B	x		x		x		x		x		х	x	x	x		х	х		х		х	х	x	x	х		x	18
в	Scientific and engineering practices	B.1C	x	x	x					x			х		x							х	х		x		х	х	х	12
в	Scientific and engineering practices	B.1D	x		x					х			x		x			х	х			х	х		х		х		х	12
в	Scientific and engineering practices	B.1E	х	x	х	х	х						х	х	х	х		х				х	х		х		х	х	х	16
в	Scientific and engineering practices	B.1F	х	x	х	х	х		х	x	х		х	х	x	х		х	х	х	х	х	х		х	х	х		х	22
в	Scientific and engineering practices	B.1G	x		x			x		х	х			х	x	х		х	х			х	х		х		х		х	15
в	Scientific and engineering practices	B.1H		x						x						x														3
в	Scientific and engineering practices	B.2A	x				x	x		x	х	x	х	х	x	х						х			x		х		x	14
в	Scientific and engineering practices	B.2B			х							х	х			х	х	х	х	х	х	х	х	х	х	х	х		х	16
в	Scientific and engineering practices	B.2C				x			х										х		х						х		х	6
в	Scientific and engineering practices	B.2D	x							x						x							x	x	x		x	x	х	9
в	Scientific and engineering practices	B.3A			x	x	x	x	x	x	x		x	х		х	x	х	х	х		x	x	x	х	х	х	х	х	22
в	Scientific and engineering practices	B.3B	x	x						x	x	x	x	х		x	x	х	х	х		x	x	x	х	х	х	х	х	20
в	Scientific and engineering practices	B.3C		×		x		×					x			×	x	x	х					x				x	х	11
в	Scientific and engineering practices	B.4A	x	x	x	x		x	x	x	x	x	х			х		х		х		x		x	х	х	х	х	х	20
в	Scientific and engineering practices	B.4B		x		x			х	х			x				x						x	x		х	х	х	х	12
в	Scientific and engineering practices	B.4C		x		x									x	х								x		x	х		х	8
в	Recurring themes and concepts		x	x	x	x	x	x	х	x	х	x	x	х	x	x	x	х	х	х	х	х	х	х	х	х	х	х	х	27
	Totals by Content TEKS		11	11	10	9	6	7	7	12	9	6	14	8	10	14	6	12	11	6	5	11	13	11	14	10	17	10	18	278