

Get students comfortable and confident for the

# STAAR 2.0

Each BrainPOP lesson—whether it's in social studies, science, math, ELA, or the arts—includes movies and activities that give students practice in the knowledge and skills they'll need to feel confident on test day.



## STAAR expectation for students

**Answer Technology-Enhanced Item (TEI) question types**—which students often find more challenging.

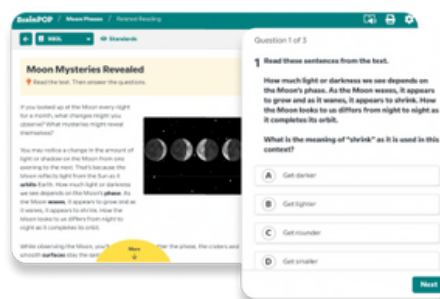
**TEIs require that students think critically and deeply**—and use problem-solving skills—to answer questions.

Demonstrate a wide breadth of **content knowledge and comprehension and technological skills** in a limited amount of time.

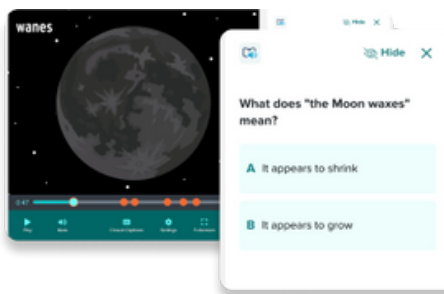
## Students' experience on BrainPOP (for grades 3-8)



✓ **Auto-graded learning activities and embedded assessments mirror TEIs in format and rigor**, letting students practice their technological skills, demonstrate their understanding, and build testing confidence all year long.



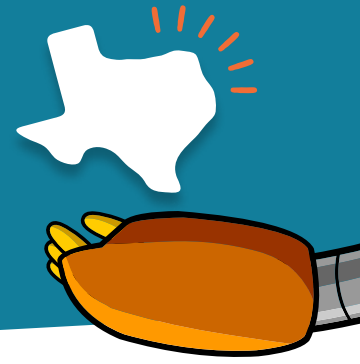
✓ From evaluating sources to extracting key details and interpreting unfamiliar words, **students develop, practice, and apply skills** alongside everything they learn.



✓ BrainPOP's cross-curricular approach combines **content instruction and skill practice into one time-saving lesson** to make the most of every instructional minute.

# Supporting TEKS across grades with BrainPOP

BrainPOP grows with students, keeping them engaged and challenged while learning their grade-leveled curriculum. Here's an example of what a student might learn, do, and see over the years on BrainPOP — as well as the TEKS behind them.



## Force, motion, and energy strand

### 4th Grade

**S.4.8.a** investigate and identify the transfer of energy by objects in motion, waves in water, and sound

### 5th Grade

**S.5.8.b** 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

### 8th Grade

**S.8.8.b** explain the use of electromagnetic waves in applications such as radiation therapy, wireless technologies, fiber optics, microwaves, ultraviolet sterilization, astronomical observations, and X-rays

## Sample activities within BrainPOP

### Heat Transfer Topic

**BrainPOP Science**

**Heat Transfer**

**Leveled Learning Activities**  
Assign by grade or reading level

- Movie with Pause Points
- Quiz **New**
- Vocab Builder **New**
- Leveled Reading **New**

### Circuits Simulation

**BrainPOP Science**

**Circuits**

Use a simulation to build a variety of circuits.

**1** Use the simulation to determine which two of these setups will successfully light the bulb. Drag the red circles to rotate items, and use the scissors icon to separate them (like this).

### Electromagnetic Spectrum Investigation

**BrainPOP Science**

**What is Invisible light?**

**1** Activate

**2** Observe and Check

**3** Explain

**4** Claim, Evidence, and Reasoning

**5** What is invisible light?

**6** Answer with your claim, evidence, and reasoning.

# Supporting the Technology Applications TEKS with BrainPOP®



Explore how Texas teachers can integrate the Tech Apps TEKS into their instruction with BrainPOP—whether they teach social studies or math, or anything in between.

## BrainPOP content to build knowledge

## BrainPOP activities to practice skills



### Social Studies

Use the **American Revolution** lesson as a way to build background knowledge and vocabulary about key causes, players, and events—as shown in **Social Studies TEKS...**

- 3.1C **3rd grade**
- 5.2C **5th grade**
- 8.4C **8th grade**

and more!



Ask students to **Make-a-Movie** about what they've learned: in this activity, they'll make their own BrainPOP movie while practicing their **creativity and innovation skills as shown in the Tech Apps TEKS...**

- 3.3B **3rd grade**
- 5.3B **5th grade**
- 8.3B **8th grade**

and more!



### Science

Use **Food Chains** to younger students, or **Ecosystems** for older students, to build background knowledge and vocabulary on how living things depend on one another, as shown in **Science TEKS...**

- 2.12B **2nd grade**
- 3.12B **3rd grade**
- 5.12B **5th grade**

and more!



Ask students to **code a digital museum** to show what they know about ecosystems via Creative Coding—they'll try their hand at coding, and practice their **computational thinking skills, as shown in Tech Apps TEKS...**

- 2.2B **2nd grade**
- 3.2B **3rd grade**
- 5.2B **5th grade**

and more!



### Reading Language Arts

Use the **Main Idea** lesson to give students the background knowledge and vocabulary they'll need to identify parts of a text, as shown in **RLA TEKS...**

- 1.9(D)(i) **1st grade**
- 3.10E **3rd grade**
- 4.9A **4th grade**

and more!



Ask students to **Make-a-Movie** about what they've learned: in this activity, they'll use their higher order thinking skills—while practicing their **creativity and innovation skills as shown in the Tech Apps TEKS...**

- 1.3B **1st grade**
- 3.3B **3rd grade**
- 4.3B **4th grade**

and more!



### Math

Use **Multi-Digit Division** as a way to bring math concepts to life through the power of storytelling, giving students what they need to do division as shown in **Math TEKS...**

- 3.4K **3rd grade**
- 4.4D **4th grade**
- 5.3B **5th grade**

and more!



Ask students to **design and code a math word problem** with Creative Coding—this will help them practice their math and computational thinking skills, as shown in the **Tech Apps TEKS...**

- 3.2B **3rd grade**
- 4.2B **4th grade**
- 5.2B **5th grade**

and more!



## Innovator

When students complete open-ended projects, they generate new ideas and approach challenges with imaginative solutions.



### BrainPOP and BrainPOP Jr:

Conveying an idea in creative formats—like making a movie or coding

**BrainPOP Science:** Building solutions through engineering projects

## Collaborator

When students work on creative projects, they are encouraged to discuss and work effectively with others to achieve common goals and learn from different viewpoints.



**BrainPOP and BrainPOP Jr:** Working together to create something from scratch—like making a movie or coding

**BrainPOP Science:** Iterating on engineering projects

## Resilient Achiever

When students review challenging concepts in a low-stakes environment, they persevere through difficulties and develop a growth mindset towards learning.



**BrainPOP:** Completing activities and formative assessments in “practice” mode

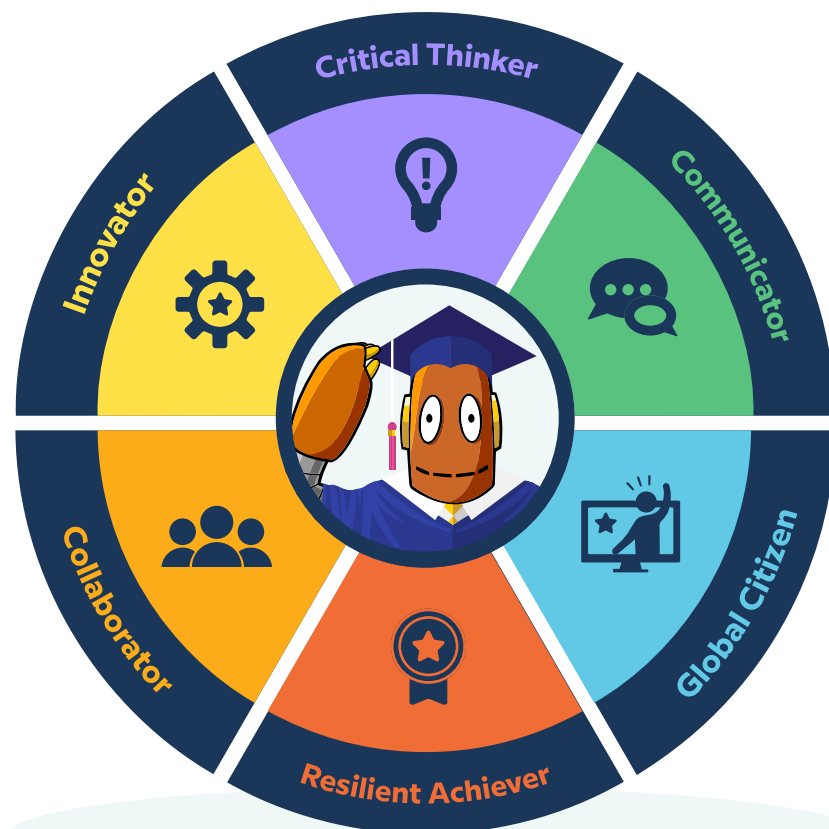
**BrainPOP Science:** Gathering the best evidence to support their claims across multiple sources

BrainPOP®

# Portrait of a Graduate & Texas



Represents only a few of the many opportunities learners have to practice and strengthen these skills across all BrainPOP products.



## Critical Thinker

When students build background knowledge, they can engage their higher order thinking skills to think deeply, analyze information, and form their own opinions.



**BrainPOP:** Analyzing primary sources and connected texts

**BrainPOP Science:** Interpreting simulations and data manipulatives

## Communicator

When students articulate their understanding through answering questions in multimodal formats, they practice clearly expressing ideas and sharing knowledge in different contexts.



**BrainPOP Jr:** Drawing or acting out their answers

**BrainPOP:** Answering open-ended questions

**BrainPOP Science:** Completing an evidence-based writing assignment

## Global Citizen

When students watch movies and complete activities that feature diverse perspectives and model respect, empathy, and online etiquette, they become responsible citizens of the world.



**BrainPOP and BrainPOP Jr:** Watching movies with characters that teach and model behavioral skills—from peer pressure and social media etiquette to conflict resolution



Prepare and empower middle school students for

# STAAR Science

BrainPOP Science's investigations and engineering projects provide standards-aligned ways to nurture middle schoolers' innate scientific curiosity—while simultaneously preparing them for their assessments.



## STAAR Science Multidimensional Expectation

Students are expected to know more than the standards and scientific principles. They need to be able to “practice the practices.”

Students will need to **build explanations, use evidence to craft arguments, and obtain, evaluate, and communicate information.**

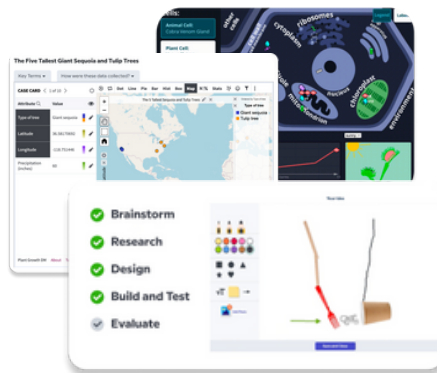
Students will navigate **technology-enhanced question types (TEIs)**, which are constructed to engage students' critical thinking and problem-solving skills.



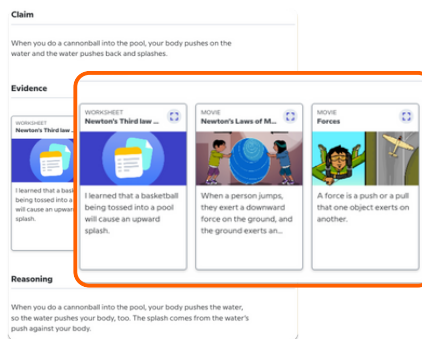
Meet the needs of the TEKS

**Did you know** that BrainPOP Science's approach is proven to improve students' evidence-based writing by **up to 20%**?

## Students' Experience on BrainPOP Science



✓ **Standards-aligned investigations and real-world engineering projects** are designed to integrate science practices—like computational thinking and the design process—with scientific concepts.



✓ **The CER writing process is embedded into BrainPOP Science:** it guides students through collecting observations, deciding which become evidence, and writing (and supporting) an evidence-based claim.



✓ Technology-enhanced question types and multidimensional science content are **built into BrainPOP Science's formative assessments**—giving students consistent practice in both all year long.

Learn more at

[brainpop.com/classroom-solutions/research](https://brainpop.com/classroom-solutions/research)

# STAAR Readiness with BrainPOP Science

BrainPOP Science's inquiry-driven investigations and real-world engineering projects align with the TEKS to empower middle schoolers to discover the science in everything.



Strengthen science practices while boosting writing and critical thinking skills



Prepare for end-of-year testing with integrated SEPs and assessments

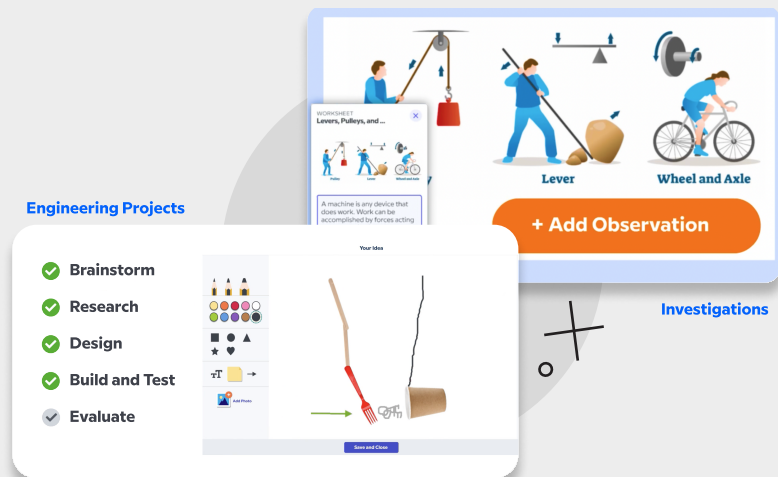


Expand teacher capacity with built-in teacher guides and clickable rubrics

## Prepare Texas middle schoolers for the STAAR and high school science

Over 100 immersive investigations center around relatable guiding questions and phenomena to nurture innate scientific curiosity as students interact with BrainPOP 3D Worlds™, Simulations, and Data Manipulatives.

- **TEKS-aligned** investigations and engineering projects designed to meet your new STAAR expectations, integrating computational thinking and the design process.
- **Build confidence in your 8th graders for STAAR** with embedded formative assessments and immersive tools that provide real-life opportunities to hone critical-thinking skills.



## Impact-filled highlights on Claim-Evidence-Reasoning (CER)



### Stronger Science Writers

Our proven approach accelerates students' evidence-based writing, directly supporting your STAAR RLA (3-8) efforts.

[Learn more](#)

Launching in Back to School 2024

### Efficiency Boost

Introducing Assisted Grading to save teachers time, streamline the CER grading process, and provide scoring suggestions to enhance grading consistency.



**BrainPOP** × Texas

# History has more than one outcome on BrainPOP

In addition to helping students comprehend their social studies TEKS, BrainPOP helps them engage with the topic, practice evidence-based thinking, and succeed at STAAR and beyond.



## One social studies lesson



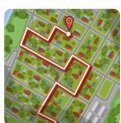
Select a card to learn more about a word.



**territory**  
(noun)



**rule**  
(noun)



**route**  
(noun)



**pioneer**  
(noun)

### Westward Expansion - Primary Source

In 1872, John Gast painted "American Progress," one of the most famous artistic expressions of westward expansion. Examine the painting and cite details to answer the following questions.



Gast, John. American Progress. 1872. Library of Congress Prints and Photographs Division, Washington, DC.

Question 1 of 4

1 How does the painting embody the idea of Manifest Destiny?

T Type S Speak

## 3 outcomes

### From memorizing facts to making connections

With a strong foundation of social studies background knowledge, students can engage with related reading and primary source activities—focusing less on remembering facts and more about **making connections and practicing evidence-based thinking**.

### From abstract ideas to an age-appropriate story

Help every student **engage with history** through **information-rich movies**—from Westward Expansion and the Texas Revolution to Building the 13 Colonies—that harness power of storytelling.

### From success in social studies class to well-rounded learners in all subjects

With BrainPOP, students are prepared to tackle social studies topics during **STAAR testing**, in their **ELA core texts**, and beyond.



Discover how BrainPOP aligns to TEKS [here](#).