

Prepare and empower middle school students for the Kentucky Summative Assessments - 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.



KSA 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.**

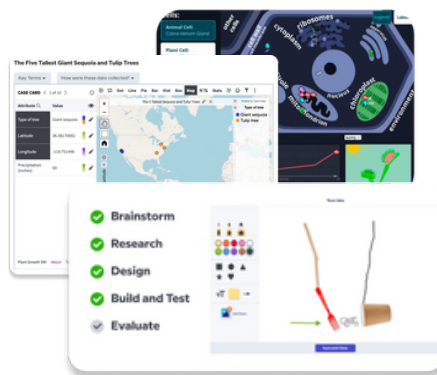
Students will navigate technology-enhanced question types (TEIs), which are constructed to engage students' critical thinking and problem-solving skills.



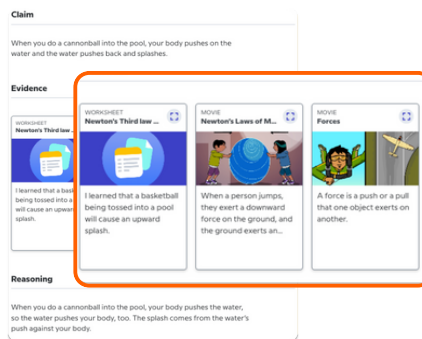
Meet the needs of the Kentucky Academic Standards for Science

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.

Raise the bar in Kentucky's middle schools

From looking to observing with investigations

Students uncover the science in everything through **immersive investigations** that kick off with **relatable guiding questions**.



110+ ready-to-use investigations



Digital tools including simulations, 3D Worlds™, and data manipulatives



Kentucky Academic Standards-aligned coverage across Physical, Life, and Earth and Space Science



Auto-graded questions build confidence and mimics KSA's testing

New update!

From answering to reasoning with evidence-based writing

Students collect observations and select evidence to support their claims through a scaffolded **Claim-Evidence-Reasoning (CER)** process.



Students are supported in their **science writing** to explain their reasoning

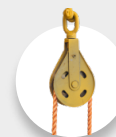


Score students' CER open responses instantly with **BrainPOP Assisted Grading™** powered by AI.

New update!

From improvising to iterating with engineering projects

Middle schoolers solve problems they might encounter in their daily lives through **hands-on prototyping** and iterating in a scaffolded design process.



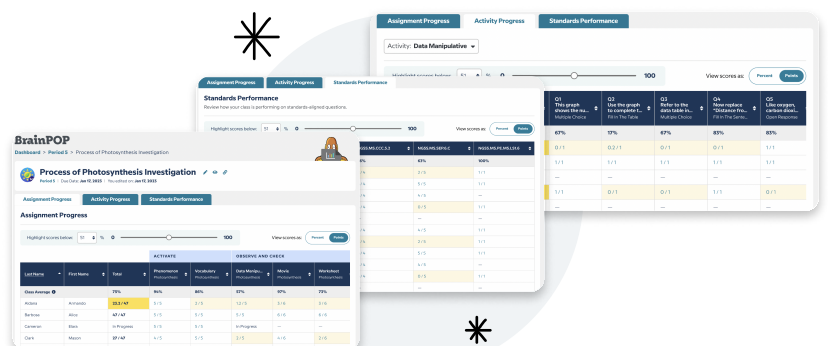
Centered around the **Engineering Design Process (EDP)**



Embedded **scoring rubric**

Teacher reports

Monitor student progress and target instruction with three views: Assignment Progress, Activity Progress, and Standard Performance.



Get students comfortable and confident for the Kentucky Summative Assessments

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.



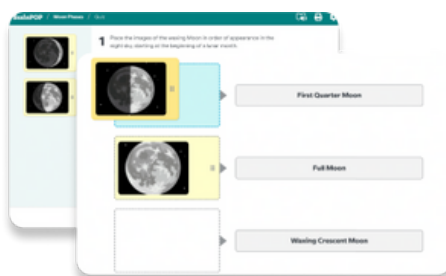
KSA expectation for students

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

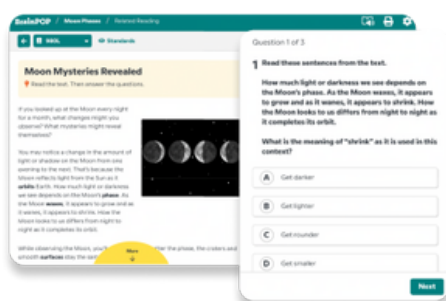
TEIs require that students think critically and deeply—and use problem-solving skills—to answer questions.

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

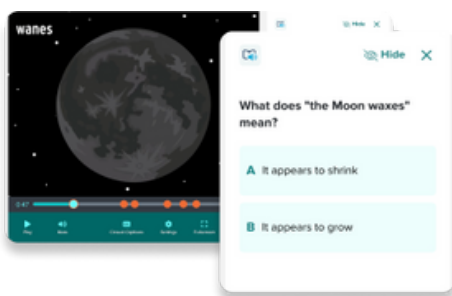
Students' experience on BrainPOP (for grades 3-8)



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.

Creative Contributor

When students complete open-ended projects, they imagine new possibilities and create new approaches to challenges.



BrainPOP and BrainPOP Jr:

Conveying ideas in creative formats—like making a movie or coding

BrainPOP Science: Building solutions through engineering projects

Productive 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

Empowered Learner

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



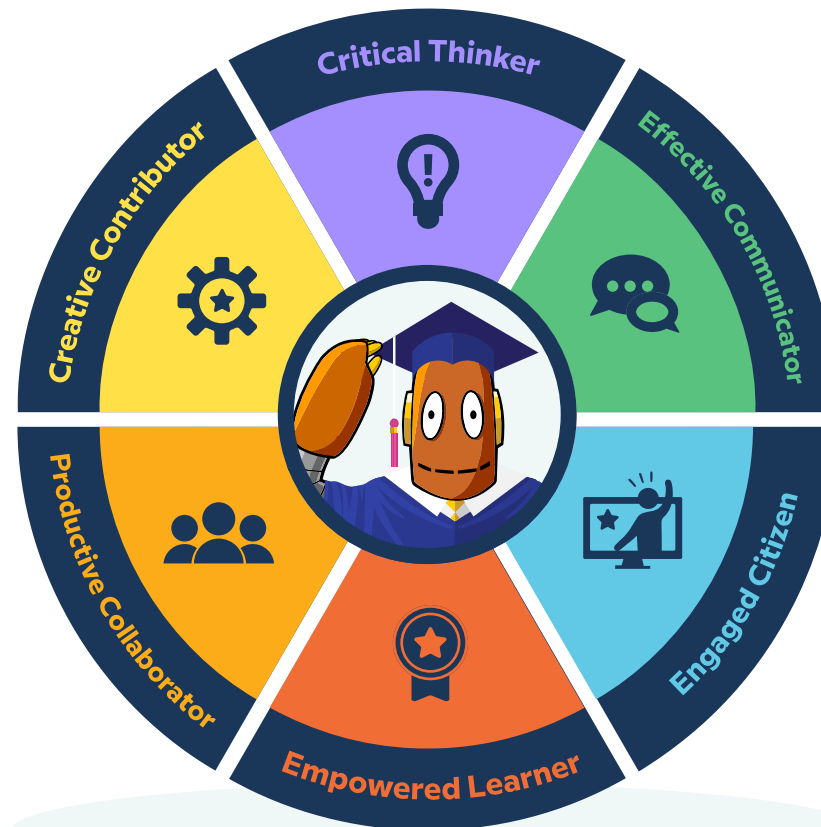
BrainPOP: Completing activities that ask them to practice and apply new skills, and formative assessments in “practice” mode

BrainPOP®

Portrait of a Learner & Kentucky



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: Gathering the best evidence to support their claims across multiple sources, and interpreting simulations and data manipulatives

Effective Communicator

When students articulate their understanding through answering questions digitally, on paper, and through class discussion, they practice clearly expressing ideas and sharing knowledge in different contexts.



BrainPOP Jr: Drawing or acting out their answers

BrainPOP: Answering open-ended questions via writing or class discussion

Engaged Citizen

When students engage in lessons that feature diverse perspectives and model respect, empathy, civic participation, 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