





# ISTE SEAL OF ALIGNMENT REVIEW FINDINGS REPORT

BrainPOP

**JUNE 2019** 







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## **ABOUT ISTE**

The International Society for Technology in Education (ISTE) is the premier nonprofit membership organization serving educators and education leaders. ISTE is committed to empowering connected learners in a connected world and serves more than 100,000 education stakeholders throughout the world.

As the creator and steward of the definitive education technology standards, our mission is to empower learners to nourish in a connected world by cultivating a passionate professional learning community, linking educators and partners, leveraging knowledge and expertise, advocating for strategic policies, and continually improving learning and teaching

# ISTE SEAL OF ALIGNMENT

Resources and products designed with the ISTE Standards in mind are choosing to demonstrate their commitment to support critical digital age learning skills and knowledge. Regardless of a solution's intended grade level, purpose or content area, by addressing the ISTE Standards and earning a Seal of Alignment, a solution is shown to consciously, purposefully and meaningfully support best practices for digital age teaching and learning.

ISTE considers a solution aligned to the ISTE Standards only after an extensive review conducted by trained ISTE Seal of Alignment reviewers, and it has been determined to meet all critical elements of a particular standard indicator in accordance with specific review criteria.

By earning a Seal of Alignment, ISTE verifies that this product:

- Promotes critical technology skills
- Supports the use of technology in appropriate ways
- Contributes to the pedagogically robust use of technology for teaching and learning
- Aligns to the ISTE Standards in specific ways as described in the review finding report



# RESOURCE DESCRIPTION

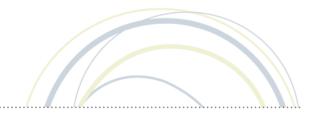
#### WHAT IS BRAINPOP?

BrainPOP is a digital learning platform for students covering topics within Science, Math, Social Studies, Digital Citizenship, Social-Emotional Learning, Engineering, Technology, the Arts, English Language Arts, and English as a Second Language. Topics center on an animated movie, sparking self-directed learning through the use of narrative, humor, and characters with relatable voices. Movies are accompanied by a variety of features like interactive quizzes, games, playful and customizable assessments, and other activities. BrainPOP's suite of creation and reflection tools — including movie making, coding projects, concept mapping, and writing and drawing activities — helps teachers tailor lessons and engage students. The BrainPOP resources are comprised of BrainPOP Jr. (K-3), BrainPOP (available in English, Spanish, and French), and BrainPOP ELL, along with support materials for educators.

### HOW IS BRAINPOP IMPLEMENTED?

BrainPOP fits into a variety of classroom arrangements and can be easily integrated into curriculum and standards. Topics and activities can be assigned individually or as part of a larger lesson, and students may also manage their own learning paths, depending on their individual needs and strengths. BrainPOP can be used to begin or review a lesson; extend learning; introduce coding, and facilitate planning, organizing, writing, collaborating, and analyzing. Its offerings also help students develop and connect ideas; explain their thought process; make predictions; and build systems thinking and cognitive skills. Teachers can customize assessment, keep track of learning, and take advantage of both lesson plans and professional development.





# ISTE SEAL OF ALIGNMENT REVIEW

Product: BrainPOP

**Organization:** BrainPOP LLC **Date of Award:** June 2019

# REVIEW METHODOLOGY

ISTE Seal of Alignment reviews are conducted by a panel of education and instructional experts. Reviewers use data collected both separately and collectively to determine how a solution addresses specific elements described in each of the indicators of the ISTE Standards. Special instruments are used by reviewers to collect data on potential alignment across all resource materials. Alignment is determined based on the extent to which all or some of specific elements are addressed within the materials. Reviewers conduct regular calibrations to assure the validity and reliability of the results and final review findings are combined for an overall score for alignment on each individual indicator.

During the review process for BrainPOP, reviewers:

- collected data on when and how each activity addressed specific skills and knowledge described in the ISTE Standards for Educators at either a foundational or applied level
- compiled findings to determine overall alignment across all ISTE Student standards and indicators.
- used aggregate findings to form the basis of the overall alignment results.

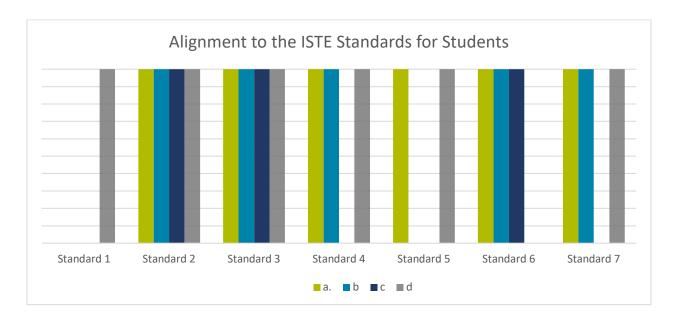
#### SCOPE OF REVIEW

*BrainPOP* was reviewed for alignment against the ISTE Standards for Students. ISTE reviewers examined content from BrainPOP, BrainPOP Jr. and BrainPOP ELL as well as resources specifically for the teacher.



#### **REVIEW FINDINGS**

BrainPOP was found to address the following standards and indicators of the ISTE Standards for Students:



BrainPOP addresses the ISTE Standards for Students in the following ways:

- Foundational Resources and activities aligned at the *foundational* level primarily focus on skills and knowledge that facilitate skill acquisition to eventually meet ISTE Standard indicators.
- Applied Resources and activities aligned at the *applied* level primarily focus on practical, real-world, and/or relevant opportunities to practice the skills and knowledge learned in the curriculum.



ISTE Standard	Foundational	Applied	
1. Empowered Learner	Finding Statement	Finding Statement	
-	T 1 1		
1.d. Understand the	Tools, concepts, and		
fundamental concepts of	operations are introduced to		
technology operations, demonstrate the ability to	students through videos in the self-contained platform.		
choose, use and troubleshoot	sen-contained platform.		
current technologies and are			
able to transfer their knowledge			
to explore emerging			
technologies.			
2. Digital Citizen			
2.a. Cultivate and manage their	The Digital Citizenship		
digital identity and reputation	modules introduce and		
and are aware of the	reinforce digital identity		
permanence of their actions in	concepts from the point of		
the digital world.	view of security.		
2.b. Engage in positive, safe,	The Digital Citizenship		
legal and ethical behavior when	modules introduce students to		
using technology, including	the concepts and skills related		
social interactions online or	to safe and legal behavior online.		
when using networked devices.	omme.		
2.c. Demonstrate an	The Digital Citizenship		
understanding of and respect for	modules introduce students to		
the rights and obligations of	the concepts and skills related		
using and sharing intellectual	to intellectual property and		
property.	students create content within		
	the platform.		
2.d. Manage their personal data	The Digital Citizenship		
to maintain digital privacy and	modules introduce students to		
security and are aware of data-	the concepts and skills related		
collection technology used to	to privacy and Internet safety.		
track their navigation online.  3. Knowledge Constructor			
<u> </u>	Counch structures and trucks of		
3.a. Plan and employ effective	Search strategies and types of		
research strategies to locate information and other resources	media are explored to introduce students to key		
miormation and other resources	miroduce students to key		

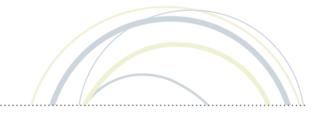


		,
for their intellectual or creative	concepts in locating	
pursuits.	appropriate sources.	
3.b. Evaluate the accuracy,	Students are guided through	
perspective, credibility and	research strategies and	
relevance of information,	information literacy practice to	
media, data or other resources.	prepare them for independent	
	work.	
3.c. Curate information from	A variety of tools are available	
digital resources using a variety	to create demonstrations of	
of tools and methods to create	learning; tools are embedded	
collections of artifacts that	in the platform limiting	
demonstrate meaningful	curation to images and	
connections or conclusions.	resources available within the	
	platform.	
3.d. Build knowledge by	Real-world issues and	Real-world issues and
actively exploring real-world	problems are the central idea	problems are the central
issues and problems,	in all tasks.	idea in all tasks. Lesson
developing ideas and theories	in air tasks.	plans are available to help
and pursuing answers and		the teacher extend
solutions.		learning.
4. Innovative Designer		learning.
_	G: 1 : 1 1 1: 1	
4.a. Know and use a deliberate	Students are introduced to the	
4.a. Know and use a deliberate design process for generating	design process in BrainPOP Jr.	
4.a. Know and use a deliberate design process for generating ideas, testing theories, creating	design process in BrainPOP Jr. and are scaffolded through	
4.a. Know and use a deliberate design process for generating ideas, testing theories, creating innovative artifacts or solving	design process in BrainPOP Jr. and are scaffolded through BrainPOP. Lesson plans	
4.a. Know and use a deliberate design process for generating ideas, testing theories, creating	design process in BrainPOP Jr. and are scaffolded through BrainPOP. Lesson plans extend the design process	
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<ul><li>4.a. Know and use a deliberate design process for generating ideas, testing theories, creating innovative artifacts or solving authentic problems.</li><li>4.b. Select and use digital tools</li></ul>	design process in BrainPOP Jr. and are scaffolded through BrainPOP. Lesson plans extend the design process outside the platform.  Mapping tools are used to plan	
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thinking in exploring and finding solutions.		student learning and application of skills.
5.d. Understand how automation works and use algorithmic thinking to develop a sequence of steps to create and test automated solutions.	Topics on Computer Programming, Functions, and Variables support the foundational part of algorithmic thinking.	Coding activities and projects are available as options to demonstrate learning.
6. Creative Communicator		
6.a. Choose the appropriate platforms and tools for meeting the desired objectives of their creation or communication.	A variety of tools within the platform are available to demonstrate learning.	
6.b. Create original works or responsibly repurpose or remix digital resources into new creations.	Digital resources can be reused, edited and remixed to include in the creation of new content within the platform.	
6.c. Communicate complex ideas clearly and effectively by creating or using a variety of digital objects such as visualizations, models or simulations.	A variety of tools within the platform are available to demonstrate learning in a number of formats.	
7. Global Collaborator		
7.a. Use digital tools to connect with learners from a variety of backgrounds and cultures, engaging with them in ways that broaden mutual understanding and learning.	Communication tools are introduced but not used. Lesson plans suggest ways to use these tools outside the platform.	
7.b. Use collaborative technologies to work with others, including peers, experts or community members, to examine issues and problems from multiple viewpoints.	A variety of communication tools are introduced.	
7.d. Explore local and global issues and use collaborative technologies to work with others to investigate solutions.	Communication tools are introduced but not used; lesson plans connect these strategies for collaboration.	





# **CONCLUSION**

The BrainPOP platform provides students with engaging activities to explore digital tools. Their extensive library of activities for Science, English Language Arts, Math, and Social Studies topics allows students to use digital tools within the platform to explore topics for deeper learning. Not only do students explore digital tools but they also practice using digital tools to demonstrate learning. The Digital Citizenship, Engineering, and Computer Science modules introduce students to important, critical skills and concepts for living in a digital world.

Activities facilitate practice with many online media skills and their extensive collection of content-related topics helps teachers use technology and media skills integrated into current issues and core subjects. The content is intentionally universal, reflecting issues and ideas that allow the activities to be implemented globally.

Overall, BrainPOP is a well-designed, engaging and comprehensive solution that gives students a solid understanding and familiarity with the key concepts and critical skills that are embodied in ISTE's Standards for Students.