BrainPOP Creative Coding Pacing Guides



Explore week-long pacing guides featuring topics that align to **ISTE standards**, cultivating computer science and coding skills to succeed in the classroom and beyond.



BrainPOP Jr. Grades K-3

Spark inspiration throughout CSEdWeek and beyond by exploring coding concepts including **loops**, **booleans**, and **conditionals**. Learning to code, even at the earliest grades, develops important life skills, from problem solving and creative thinking to resilience, self-efficacy, and even language development (coding is a language!).

Day 2	Day 3	Day 4	Day 5
Choose a BrainPOP Jr. topic that's relevant for your class.	Each student selects a Creative Coding project from the Day 2 topic.	Pair students to review each other's coding projects and provide feedback.	Celebrate with a coding project showcase!
Watch the movie together.	Instruct students to include at least two loops in their code	Using feedback, students iterate on their projects.	Challenge students to identify the loops in each project.
	Day 2 Choose a BrainPOP Jr. topic that's relevant for your class. Watch the movie together.	Day 2Day 3Choose a BrainPOP Jr. topic that's relevant for your class.Each student selects a Creative Coding project from the Day 2 topic.Watch the movie together.Instruct students to include at least two loops in their code.	Day 2Day 3Day 4Choose a BrainPOP Jr. topic that's relevant for your class.Each student selects a Creative Coding project from the Day 2 topic.Pair students to review each other's coding projects and provide feedback.Watch the movie together.Instruct students to include at least two loops in their code.Using feedback, students iterate on their projects.

Day 1	Day 2	Day 3	Day 4	Day 5
Watch the <u>Booleans movie</u> as a class. Share statements and ask students if they are true or false. • <u>Booleans lesson plan</u>	Choose a BrainPOP Jr. topic that's relevant for your class. Watch the movie together.	Each student selects a Creative Coding project from the Day 2 topic. Instruct students to include at least one boolean in their code.	Pair students to review each other's coding projects and provide feedback. Using feedback, students iterate on their projects.	Celebrate with a coding project showcase! Challenge students to guess the booleans in each project.

Day 1	Day 2	Day 3	Day 4	Day 5
Watch the <u>Conditionals</u> <u>movie</u> as a class Ask: What happens if it begins to rain while you're having a picnic in the park? • <u>Conditionals lesson plan</u>	Choose a BrainPOP Jr. topic that's relevant for your class. Watch the movie together.	Each student selects a Creative Coding project from the Day 2 topic. Instruct students to include at least one conditional in their code.	Pair students to review each other's coding projects and provide feedback. Using feedback, students iterate on their projects.	Celebrate with a coding project showcase! Challenge students to guess the conditional in each project.

BrainPOP Grades 3-8

Spark inspiration throughout CSEdWeek and beyond by exploring coding concepts including **loops**, **variables**, and **functions**. Learning to code develops lifelong skills, such as problem solving and critical thinking, while nurturing creativity and persistence.

Day 1	Day 2	Day 3	Day 4	Day 5
Watch the <u>Loops movie</u> with Pause Points as a class.	Choose a BrainPOP topic that's relevant for your class.	Each student selects a Creative Coding project from the Day 2 topic.	Pairs review each other's coding projects and provide feedback.	Celebrate with a coding project showcase!
Discuss where you see loops in real life. • <u>Loops lesson plan</u>	Watch the movie with Pause Points together.	Instruct students to include at least three loops in their code.	Students iterate on their projects.	Challenge students to identify the loops in each coding project.

Day 1	Day 2	Day 3	Day 4	Day 5
Watch the <u>Variables movie</u> with Pause Points as a class.	Choose a BrainPOP topic that's relevant for your class.	Each student selects a Creative Coding project from the Day 2 topic.	Pair students to review each other's coding projects and provide feedback.	Celebrate with a coding project showcase!
Discuss how variables might be useful in real life.	Watch the movie with Pause Points together.	Instruct students to include at least three variables in their code.	Using feedback, students iterate on their projects.	Challenge students to identify the variables in each coding project.

Day 1	Day 2	Day 3	Day 4	Day 5
Watch the Functions movie with Pause Points as a class.	Choose a BrainPOP topic that's relevant for your class.	Each student selects a Creative Coding project from the Day 2 topic.	Pair students to review each other's coding projects and provide feedback.	Celebrate with a coding project showcase!
Discuss how functions can simplify real-life processes.	Watch the movie with Pause Points together.	Instruct students to include at least two functions in their code.	Using feedback, students iterate on their projects.	Challenge students to identify the functions in each coding project.
Functions lesson plan				