

# Scope & Sequence

Sphero Edu is an extremely versatile program and can be used in a number of different ways, whether it's incorporated in a Science, Mathematics or ELA classroom, a Computer Science course, a Makerspace or an after school club.

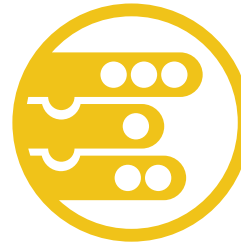
As you and your students work with Sphero, it's important to approach the content in a strategic way. This document will help guide you as you decide which activities to use with your students based on the context of your classroom and your students' programming skills.

Our team has created plenty of content, but we want you to keep inspiring the community by putting your own activities and ideas out into the wild.



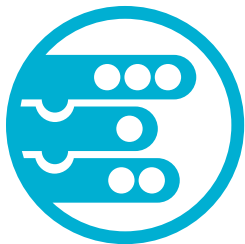
## Draw:

All activities marked with Draw allow students to complete that activity using the Draw only function



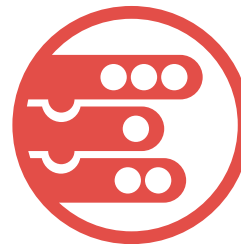
## Blocks Level 3:

Once students have mastered the use of using Controls, we recommend they move onto activities that have Level 3 components. In level 3, students will learn about sensors and how to use them with both comparators and operators.



## Blocks Level 1:

Level 1 Blocks introduces students to the foundation of block-based coding, where they will be using all blocks within "Movement" and "Lights and Sounds". We recommend students start here with their first exposure to blocks.



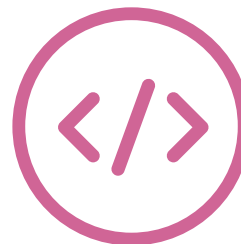
## Blocks Level 4:

In the final level of blocks, students begin to use both variables and functions to help them scale and streamline their programs as well as increase the functionality of the robot.



## Blocks Level 2:

Level 2 blocks introduces students to the Controls category which focuses mostly on Loops and If/Then statements, many of these activities also utilize the level 1 blocks.



## Text:

All activities marked with text support students in learning how to use JavaScript. Students receive tutorials as well as complete activities while programming in text.

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Activity Name	Content Area Focus	Grade Levels	Draw	Movement	Lights & Sounds	Controls	Operators	Comparators	Sensors	Events	Variables	Functions	Text
<a href="#">Draw 1: Shapes</a>	Math	K-5th											
<a href="#">Draw 2: Spelling</a>	ELA	K-5th											
<a href="#">Draw 3: Perimeter</a>	Math	K-5th											
<a href="#">Area of Rectangles</a>	Math	3rd - 8th											
<a href="#">Geometric Transformations</a>	Math	3rd - 8th											
<a href="#">Blocks 1: Intro and Loops</a>	Computer Science	3rd - 8th											
<a href="#">Sphero Olympics: The Long Jump</a>	Science	K-8th											
<a href="#">Bridge Challenge</a>	Science	K-8th											
<a href="#">Hydro-Hypothesis</a>	Science	K-12th											
<a href="#">Light Painting</a>	Science	K-12th											
<a href="#">Maze Mayhem</a>	Cross-Curricular	K-12th											
<a href="#">Sphero City</a>	Social Studies	K-12th											
<a href="#">Swim Meet</a>	Cross-Curricular	K-12th											
<a href="#">Space Academy (1-3)*</a>	Science	3rd - 8th											
<a href="#">Jousting Tournament</a>	Social Studies	3rd - 8th											
<a href="#">Sphero Run</a>	Science	3rd - 8th											
<a href="#">Chariot Challenge</a>	Social Studies	K-8th											
<a href="#">The Heart - Elementary &amp; Middle</a>	Science	3rd - 8th											
<a href="#">The Heart - High School</a>	Science	9th - 12th											

\*Indicates a series of activities that is meant to be completed in sequential order.

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Activity Name	Content Area Focus	Grade Levels	Draw	Movement	Lights & Sounds	Controls	Operators	Comparators	Sensors	Events	Variables	Functions	Text
<a href="#">Blocks 2: If/Then/Else</a>	Computer Science	3rd - 8th											
<a href="#">Blocks 3: Lights</a>	Computer Science	3rd - 8th											
<a href="#">What a Character</a>	ELA	3rd - 12th											
<a href="#">Space Series (1-8)*</a>	Science	3rd - 8th											
<a href="#">Tractor Pull</a>	Science	3rd - 8th											
<a href="#">Atom Tracks</a>	Science	3rd - 12th											
<a href="#">Helmets for the Win!</a>	Science	6th - 12th											
<a href="#">Avoid the Minotaur</a>	Social Studies	5th - 12th											
<a href="#">Dance Party</a>	Cross-Curricular	3rd - 12th											
<a href="#">World Series (1-8)*</a>	Cross-Curricular	6th - 8th											
<a href="#">Blocks 4: Variables</a>	Cross-Curricular	3rd - 8th											
<a href="#">Organ Quiz</a>	Science	3rd - 8th											
<a href="#">Planetary Motion</a>	Science	3rd - 8th											
<a href="#">Planets Quiz</a>	Science	3rd - 8th											
<a href="#">Secret Message</a>	Social Studies	3rd - 12th											
<a href="#">Fortune Teller - Elementary &amp; Middle</a>	Math	3rd - 8th											
<a href="#">Fortune Teller - High</a>	Math	9th - 12th											

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