

# Sphero BOLT High-School Learning Activities and Learning Progression



PROGRAMMING LEVEL	CONTENT THEME			
	Science	Technology & Engineering	Art	Math
<b>Draw</b> <i>Manual Movement, Distance, Direction, Speed, and Color</i>				
<b>Beginning Block</b> <i>Roll, Delay, Sound, Speak, and Main LED</i>	Acceleration Equations Circular Motion Circuit Coding Challenge	Blocks 1: Loops Bridge Challenge	Holographic Projections Art for Social Justice	Mathematical Darts Linear Relationships
<b>Intermediate Block</b> <i>Simple Controls (Loops), Sensors, and Comments</i>	Tractor Pull Hydro-Hypothesis Tractor Pull	Chariot Challenge (Advanced) Maze Mayhem	Light Painting Retro Games Jousting Tournament	Ultimate Randomizer Jurassic Code
<b>Advanced Block</b> <i>Functions, Variables, Complex Controls (If Then), and Comparators</i>	Helmets for the Win Atom Tracks Planets Quiz	Blocks 2: If/Then, Else Blocks 3: Lights Blocks 4: Variables	Avoid the Minotaur What a Character!	
<b>Block-Text Transition</b> <i>JavaScript Syntax, Punctuation, and Asynchronous Programming</i>	Recursion & Ocean Colors	Text 1: Hello World! Text 2: Conditionals		
<b>Beginning Text</b> <i>JavaScript Movements, Lights, and Sounds</i>		Text 3: Lights Text 4: Variables		Fun Fun Functions Morse Code/Data Structures