

CodeHS Lesson Plans

	Programming with Karel
	<u>Intro to Programming w/ Karel and Basic Karel</u>
	<u>Karel Can't Turn Right</u>
	<u>Functions in Karel</u>
	<u>The Start Function</u>
	<u>Top Down Design & Decomposition - Part A</u>
	<u>Top Down Design & Decomposition - Part B</u>
	<u>Commenting Your Code & Super Karel</u>
	<u>For Loops - Part A</u>
	<u>For Loops - Part B</u>
	<u>If Statements</u>
	<u>If/Else Statements</u>
	<u>While Loops In Karel</u>
	<u>Control Structures Example</u>
	<u>More Karel Examples and Testing</u>
	<u>How to Indent Your Code</u>

	Basic JavaScript and Graphics
	<u>Hello World</u>
	<u>Variables</u>
	<u>User Input</u>
	<u>Basic Math in JavaScript</u>
	<u>Using Graphics in JavaScript</u>
	<u>Booleans</u>
	<u>Logical Operators</u>
	<u>Comparison Operators</u>
	<u>If Statements in JavaScript</u>
	<u>For Loops in JavaScript, General For Loops, For Loop Practice</u>
	<u>Random Numbers</u>
	<u>While Loops</u>
	<u>Loop and a Half</u>
	<u>Functions and Parameters 1, 2, and 3</u>
	<u>Functions and Return Values 1 and 2</u>
	<u>Local Variables and Scope</u>
	<u>Basic Javascript and Graphics Challenges</u>

	Animation and Games
	<u>Timers</u>
	<u>Random Circles</u>
	<u>Random Ghosts</u>
	<u>Bouncing Ball</u>
	<u>Mouse Events: Mouse Clicked</u>
	<u>Mouse Events: Mouse Moved</u>
	<u>Drawing Lines</u>
	<u>Key Events</u>
	<u>Crazy Ball Game</u>
	<u>Breakout</u>



Basic Data Structures

[Intro to Lists / Arrays](#)

[Indexing Into an Array](#)

[Adding / Removing from an Array](#)

[Array Length and Looping Through Arrays](#)

[Iterating Over an Array](#)

[Finding an Element in a List](#)

[Removing an Element from an Array](#)

[Intro Into Objects / Maps](#)

[Basics of Objects](#)

[Iterating Over an Object](#)

[When do I Use an Object?](#)

[Intro to Sets](#)

[Intro to Grids](#)

[Looping Over a Grid](#)

[Grid Example: Get a Row](#)

[Data Structures Challenges](#)

	Game Design: Helicopter
	<u>Game Design: Helicopter</u>
	<u>Basics</u>
	<u>Improvements</u>
	<u>Polish</u>

More Lessons Plan Coming!

email hello@codehs.com with comments.