

Syllabus Excerpt

#	Dates	Name	Overview	Time	Apps & Activities
Section 1 – Getting to Know Codey Rocky - Use the Apps for Control					
1.		Introduction to Codey Rocky 	<p>KWL - What I know and wonder about Robots and <u>Draw</u> a Robot.</p> <p>Understand what Codey Rocky is and how it operates.</p> <p>Video - What Codey Can Do</p> <p>Teacher demonstration of Codey Rocky</p> <p>KWL - What I know and wonder about Engineers</p> <p>Writing Prompt: What is an Engineer and Draw an Engineer</p> <p>Understand STEM careers and what an Engineer does.</p> <p>KWL - What I learned about Robots</p> <p>KWL - What I learned about Engineers</p>	1 Hr (1 or 2 classes)	MakeBlock App mBlock App Activity 1: KWL Chart: Robots Learn about Robots Activity 2: Draw and Label a Robot Activity 3: KWL Chart: Engineers Learn about Engineers Activity 4: Write to Explain what is an Engineer
2.		Classroom Setup and Teams 	<p>Demonstrate how students work together in teams</p> <p>Form teams, learn about team roles, and decide the roles to be played in the team each class session.</p> <p>Understand the team roles</p> <p>Demonstrate how students use the materials to have a clean and organized classroom.</p> <p>Demonstrate use of the lessons, using worksheets, and handing in worksheets</p>	1 to 2 hrs (1 to 2 classes)	Activity 1: Form Teams Activity 2: Teamwork Activity of your choice Activity 3: Keeping the class organized
Section 2 – Outer Space Adventures					
5.		Space Mission 	<p>Learn about the overall Mars Mission.</p> <p>Draw a model of planets in our Solar System</p> <p>Demonstrate knowledge about Mars</p> <p>Demonstrate knowledge about NASA's plans for Mars</p> <p>Demonstrate knowledge of the Distance from Earth to Mars</p> <p>Write a Mars Mission Plan</p>	1 to 2 hr s (1 to 2 classes)	Activity 1: Draw a model of Solar System Activity 2: Write about Mars Activity 3: Create a Mars Mission Plan

6.		<p>Space Adventure 1: Communication</p> 	<p>Define Communication.</p> <p>Define Brainstorming</p> <p>Compare how people and robots Communicate.</p> <p>Demonstrate two ways that Codey Communicates.</p> <p>Use the MakeBlock App to Control Codey Face Display and Sounds</p> <p>Define the steps of the Engineering Process</p>	<p>45 min to 1 hour (2 classes)</p>	<p>MakeBlock App</p> <p>Activity 1: Connect your Codey</p> <p>Activity 2: Sounds</p> <p>Activity 3: Face Display</p> <p>Activity 4: Send messages</p>
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