Girl Scout Robotics 1 Badge

One Way to Earn the Robotics 1 Badge as a Multi-Level Troop	What Daisies Do (What Robots Do Badge)	What Brownies Do (Programming Robots Badge)	What Juniors Do (Programming Robots Badge)	What Cadettes Do (Programming Robots Badge)	What Seniors Do (Programming Robots Badge)	What Ambassadors Do (Programming Robots Badge)
How do robots work? What are robots used for? What are the components of a robot? Learn about a pulley, screw, leaver, wedge, inclined plane, wheel and axle mean when designing a robot.	Learn about robots	Learn how robots work	Learn how robots work	Learn about robots	Learn about robots	Learn about robots
Robots, just like us, have to use their senses to understand their surroundings. Test your robot senses and determine what snack is in your bag!	Find out what robots can do	Discover the robot brain	Discover the robot brain	Build a robot part: simple sensors	Build a robot part: robot arm	Build a robot model: motorized robot
Computer engineers create algorithms, sets of step by stem instructions, which are coded into the robot so they can move. Today you are going to color an image without looking at it to see what it would be like to be a computer engineering creating a code without being able to see it.	Team up to design your own robots	Learn about programming	Learn about programming	Make a box model robot with sensors	Learn how robot systems work together	Explore the way robotics systems work together
Create step by step directions for your robot to navigate through a course or a room. Your robot will encounter obstacles to overcome and		Try simple programming	Try simple programming	Learn about programming	Learn about programming	Learn about programming

react to, so make sure you include special instructions that tell your robot how to react.						
Go to Hour of Code and choose a game to play and design a code for!		Code a robot	Code a robot	Write a program for a robot	Write a program for a robot	Write a program for a robot