

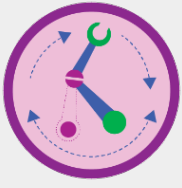



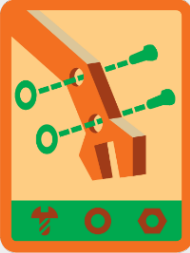
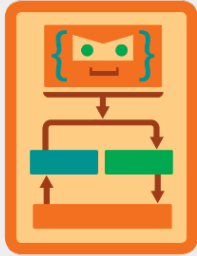


BADGE	DESCRIPTION
 <p>Robotics 1: Designing Robots</p> <p>Brownie (Grades 2-3) STEM</p>	<p>Team up with your fellow Brownies to design a robot. Plan, build, and share your robot prototype.</p> <ol style="list-style-type: none"> 1. Explore how robots imitate nature 2. Learn about the parts of a robot 3. Plan your robot 4. Create a prototype 5. Get feedback on your robot <p>When you've earned this badge, you'll know how to plan, build, and share feedback like an engineer by creating a prototype of a robot that helps other people or animals.</p> <p>GET THIS BADGE</p>
 <p>Robotics 2: Programming Robots</p> <p>Brownie (Grades 2-3) STEM</p>	<p>Learn about the robot brain by engineering a machine that helps a robot to land</p> <ol style="list-style-type: none"> 1. Learn how robots work 2. Discover the robot brain 3. Learn about programming 4. Try simple programming 5. Code a robot <p>When you've earned this badge, you'll know how to create a program that could be run by a robot.</p> <p>GET THIS BADGE</p>
 <p>Robotics 1: Designing Robots</p> <p>Junior (Grades 4-5) STEM</p>	<p>Plan and build a prototype of a robot that solves a global problem.</p> <ol style="list-style-type: none"> 1. Discover the future of robots 2. Determine your robot's expertise 3. Plan your robot 4. Create a prototype 5. Get feedback on your robot <p>When you've earned this badge, you'll know how to plan, build, and share feedback like an engineer by creating a prototype of a robot that solves a global problem.</p> <p>GET THIS BADGE</p>

BADGE	DESCRIPTION
 <p>Robotics 2: Programming Robots</p> <p>Junior (Grades 4-5) STEM</p>	<p>Engineer a simple machine that helps a robot land, learn about the robot brain, and create programs for your friends.</p> <ol style="list-style-type: none">1. Learn how robots work2. Discover the robot brain3. Learn about programming4. Try simple programming5. Code a robot <p>When you've earned this badge, you'll know how robots receive instructions in a way similar to the human brain. You will be able to create simple programs that could be run by a robot.</p> <p>GET THIS BADGE</p>
 <p>Robotics 1: Designing Robots</p> <p>Cadette (Grades 6-8) STEM</p>	<p>Build a prototype of a new kind of robot that could help someone to overcome a daily obstacle. Decide on a challenge, brainstorm solutions, plan, build a prototype, and test it to see how well it meets the challenge.</p> <ol style="list-style-type: none">1. Pick a challenge2. Explore possible solutions3. Plan your prototype4. Build a prototype5. Get feedback on your robot <p>When you've earned this badge, you'll know how to design a robot and build a prototype.</p> <p>GET THIS BADGE</p>

BADGE	DESCRIPTION
 <p>Robotics 2: Programming Robots</p> <p>Cadette (Grades 6-8) STEM</p>	<p>To help you understand how robots work, learn about the parts that make up a robot. Get started with electronics by making a simple sensor, something robots use to function without human operators. Then practice coding robots using important programming concepts like functions and loops.</p> <ol style="list-style-type: none">1. Learn about robots2. Build a robot part: simple sensors3. Make a box model robot with sensors4. Learn about programming5. Write a program for a robot <p>When you've earned this badge, you'll understand how robots work and how to control them.</p> <p>GET THIS BADGE</p>
 <p>Robotics 1: Designing Robots</p> <p>Senior (Grades 9-10) STEM</p>	<p>Build a prototype of a new kind of robot that helps or replaces people who work in difficult or dangerous situations. Decide on a challenge, brainstorm solutions, plan, build a prototype, and test it to see how well it meets the challenge.</p> <ol style="list-style-type: none">1. Pick a challenge2. Explore possible solutions3. Plan your prototype4. Build a prototype5. Get feedback on your robot <p>When you've earned this badge, you'll know how to design a robot and build a prototype.</p> <p>GET THIS BADGE</p>

BADGE	DESCRIPTION
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**Robotics 2:
Programming Robots**

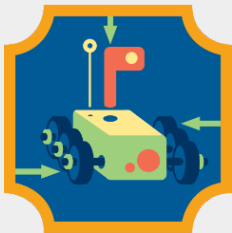
Senior (Grades 9-10)
STEM

To understand more about how robots work, explore the parts and systems that make up a robot, and then learn about different ways to control a robot, including computer programming.

1. Learn about robots
2. Build a robot part: robot arm
3. Learn how robot systems work together
4. Learn about programming
5. Write a program for a robot

When you've earned this badge, you'll understand how robots work and how to control them.

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**Robotics 1: Designing
Robots**

Ambassador (Grades 11-12)
STEM

Explore the Design Thinking Process as you build a model of a social robot that can make life better for others. Decide on a challenge, brainstorm solutions, plan, build a prototype, and test it to see how well it meets the needs it is designed to address.

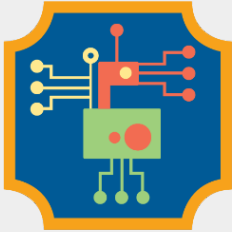
1. Pick a challenge
2. Explore possible solutions
3. Plan your prototype
4. Build a prototype
5. Get feedback on your robot

When you've earned this badge, you'll know how to design a robot and build a prototype.

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BADGE

DESCRIPTION



**Robotics 2:
Programming Robots**

Ambassador (Grades 11-
12)
STEM

To help you understand how robots work, learn about the parts that make up a robot. Get started by making a simple motorized robot to see how robot parts work together. Then practice coding robots, using important programming concepts, like functions and loops.

1. Learn about robots
2. Build a robot model: motorized robot
3. Explore the way robotics systems work together
4. Learn about programming
5. Write a program for a robot

When you've earned this badge, you'll understand how robots work and how to control them.

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