



Hands-on Project Building and Coding

Magic Tentacles: True Learning

When children come in contact with robots it's like the robot has magic tentacles that reach out and pull the child's imagination in. The child begins to see and make new connections to a new world of possibilities - connections to new and exciting paths previously unknown that may someday be their future. They discover skills and capabilities that lay dormant within themselves and powers of possibility that engage their minds.

A New Learning Adventure

Every child is ready to learn through exploration; this adventure is for each of them. We have collected the best of the robot breed to nurture imaginations. We offer robots that fit children at every stage of development from pre K to post 12. Our combination of robots plus curriculum is assured to stimulate and match each child's potential.

Use these robots with curriculum to engage children in almost any lesson - reading a story they wrote, or acting out a play to recreate a historical event, or measuring angles and applying the geometry of circles and triangles, or learning fractions, or drawing an art project, or discovering the principles of magnetism, sound, light, and electricity.

Elementary Robotics Packages

Darlings Dash and Dot



One of the many superlatives used to describe **Dash** is adorable. Speak and Dash turns to face you and says engaging things like "I see you". Dash has accessories like a ball launcher (great fun) and a xylophone to play music. With the bulldozer, bunny ears, tail hook and Lego extensions, children have countless hours of fun while learning to code and can also create their own zoo with fun sounds and mimicking behaviors.

Curious Cubes



Cubelets are smart blocks or "building blocks with brains" that a child can snap together in almost endless possibilities to build their own creations. While creating they begin to think like an artist and engineer—to problem solve and use critical thinking. Each block provides a different function: a power block provides energy while other blocks provide sound, motion, lights, and sensors for detecting changes in distance, light level, and temperature.

Mighty Minion Ozobots



Ozobot, "the world's smallest programmable robot", senses lines of different colors and color patterns. Young children first learn to control them by drawing lines and colored sequences. They use coding to make the robot dance, spin, flash lights, or race about. They can dress it up and tell stories with it. They can draw lines, or follow mazes, or teach the robot to dance with the free Apps on a tablet or smartphone.



Exploring Robotics for K-12

Home School and Self-Study Robot Kits



Grades 6-12

Hands-on projects create memories. The best teachers encourage exploration. Engage and inspire your children in great projects using these robots and electronic kits.

Prepare for Careers

The lessons teach coding and thinking like an engineer - skills that can help children advance to many high-paying STEM careers. The robots are rugged, will last for years and can be passed down from one child to the next.

The Curriculum includes 10 weeks of lessons and competitions where children in a family can compete with each other, or create an added level of fun for birthday parties and playdates.

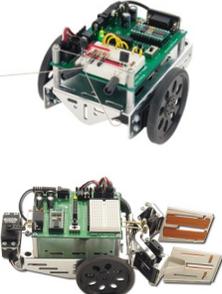
Programming and Electronics

- ◇ Fundamental concepts of coding and electronics provide the necessary foundation for building and inventing with digital devices.
- ◇ Robots provide a fun way to explore and learn these concepts. Students then apply this knowledge to create their own inventions.
- ◇ Teachers don't require engineering expertise: self-paced curriculum with videos introduce skills, while teachers facilitate and encourage learning.
- ◇ Programming languages include Scratch, Basic, Python, and C.
- ◇ Some robots work with tablets or chrome books, while others require laptops (see our website).

Internet of Things (IOT)

- ◇ Explore how to integrate and control things from Smart Phones and computers over the Internet.
- ◇ Be prepared to not only live in 21st Century but help create devices that add comfort, security, and fun.
- ◇ Kits with easily connected electronic sensors combined with curriculum for step by step instruction in coding and electronics activities.

Middle to High School Robotics

Automated Artist - Scribbler	
	Scribbler robot has a pen port. Use different colored pens to create drawings or write messages. Express coding skills in Scratch-like language for line following, dancing, music, lights, and sensors! Do the Hokey Pokey, create dance routines, and apply math, geometry, measuring and physical sciences.
Grove Pi—Raspberry Pi Board with Sensors	
	Collect data from a large variety of sensors, monitor the sensors over the web, and control devices with Scratch or Python. Create science experiments or inventions, track results, analyze data, and make reports. Explore STEM and the Internet of Things!
All Hands on Boe-Bot	
	Build a mobile robot, program it, and use the breadboard to learn electronics, electricity, physics, engineering, mechanics, and other skills. Use sensors similar to insects, detect and avoid objects, follow lines, flash lights, play sounds. With engineering kit: pick up objects, crawl, use sonar, design your own add-ons and lots more fun competitions!
Fast and Nimble Asuro	
	German designed Asuro takes electronics to the next level with soldering onto a PCB board. Build subsystems and technical job skills and learn to control it with C language, then race it and run mazes.



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