



# DISCOVERY KIT

HANDS-ON KNOWLEDGE AT YOUR FINGER TIPS

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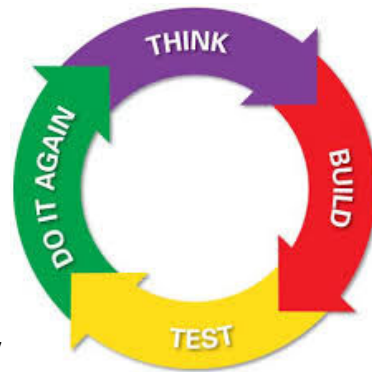
Or visit <https://www.kenai.city/library/page/steam-kits>

## Engineering Design Process

### Think, Build, Test, Do It Again

That's the process Engineers use when they tackle a problem. Engineers don't have official rules telling them to follow this set of steps. But, over time they have learned that **they get the best results this way.**

They **think** and brainstorm about a problem and factors they have to consider to solve it. They come up with an idea and **build** a prototype. They **test** the prototype. Then they **repeat** the process to improve their results.



### It Takes a Lot of Back and Forth

Engineers often move back and forth within the loop, repeating two steps over and over again before moving forward. It's a key to engineering success. Sometimes engineers will focus on one specific step, and when complete, pass the project off to another team with a different skill set.

### Engineers are creative problem solvers!

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## Coding 3: Ozobot Bit Robots

**Scientific Concept:** Computer Coding

**Recommended Ages:** 8 to 12

**Scientific Practice:** Computational Thinking

### ABOUT THIS KIT

Ozobot bits are small ball-like robots you can program by drawing codes on black track mazes. You can make them go faster, slower, turn, dance, and light up. We include two Ozobots so you can draw separate maps and watch them race.

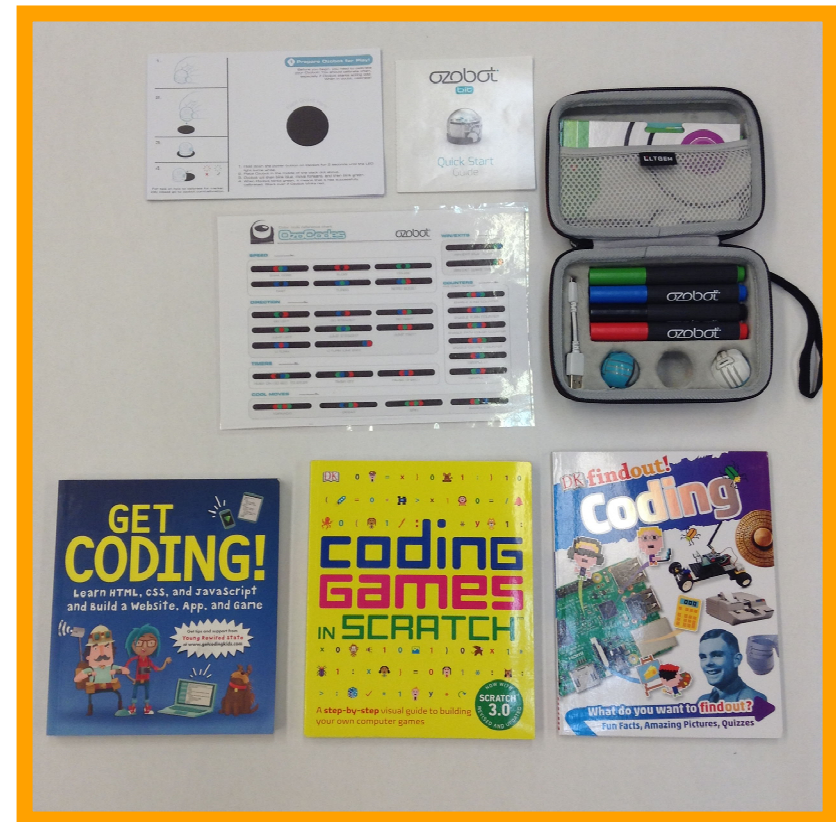
If you want to pair it with a smart device, you can use Blockly to write computer code with simple instructions to take full control of the Ozobots.

**Please note:** this kit must be returned to a staff member at the Kenai Community Library Location.



# Kit Contents & Replacement Costs

Item Type	Description	Cost
Object	Ozobot bit (2 pack)	\$100
Object	Ozobot Markers (4 pack)	\$10
Book	Get Coding	\$13
Book	Coding Games in Scratch	\$20
Book	Findout! Coding	\$11
<b>Packaging &amp; Processing Fee:</b>		\$25
<b>Total Kit Replacement Cost:</b>		\$179



Please verify all parts are present before returning.

