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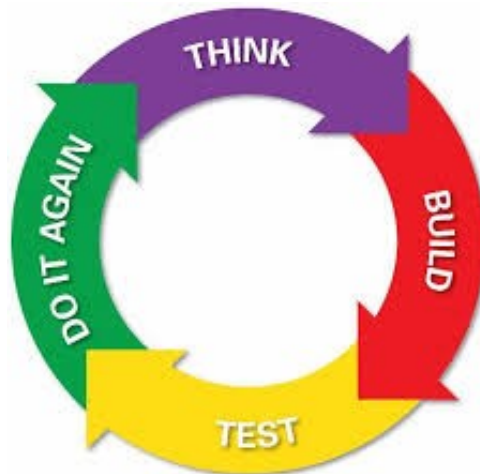
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Engineering Design Process

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've 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. And, 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!

This kit was made possible by the
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STEM Kit 9

Robot Gecko

Scientific Concept: Computer Coding

Recommended Ages: 8 to 12

Scientific Practice: Engineering

What to know about this kit:

Build a wall-climbing robot and other projects with a battery motor and air suction system. You will learn physics and engineering and conduct experiments and practice model building.

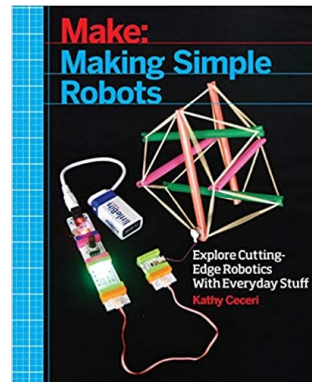
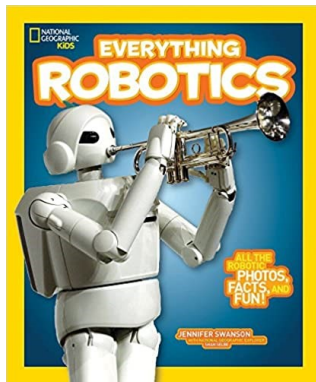
The robot walks up perfectly smooth surfaces like glass.

Please note: This kit must be returned to a staff member at the Irene Ingle Public Library.

874-3535 / wrangell.com/library

Kit Contents & Replacement Costs

Item Type	Description	Cost
Object	Thames & Kosmos Geckobot kit (176 pieces)	\$50
Leaflet	Thames & Kosmos Experiment Manual	N/A
Book	<i>Make: Making Simple Robot</i>	\$25
Book	<i>Everything Robotics</i>	\$13
Packaging & Processing Fee:		\$25
Total Kit Replacement Cost:		\$113



Please verify all parts are present before returning.