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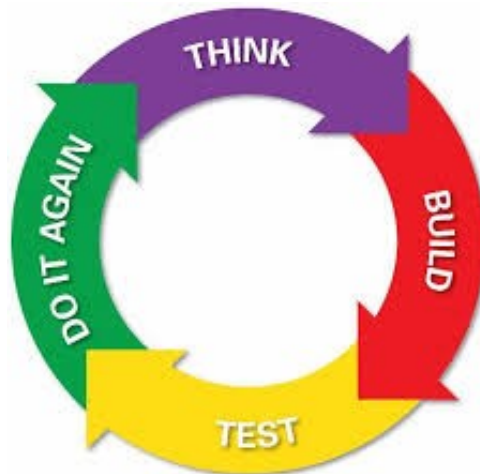
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## Engineering Design Process

### 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!**

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## STEM Kit 10

# Robot Smart Machines

**Scientific Concept:** Computer Coding

**Recommended Ages:** 8 to 14

**Scientific Practice:** Engineering

### What to know about this kit:

Robotics Smart Machine set allows you to construct eight robots, including a bipedal android. Download the free app to a smartphone or tablet\* to program and control your robots. An ultrasonic sensor enables the robots to react to their surroundings!

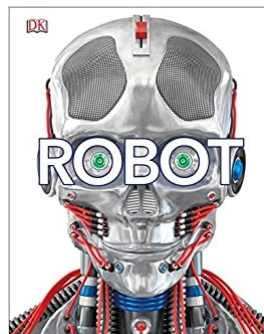
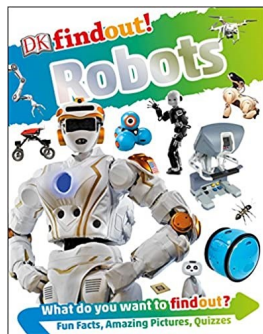
**\*This kit requires a smartphone or tablet which is not included.**

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

874-3535 / [wrangell.com/library](http://wrangell.com/library)

## Kit Contents & Replacement Costs

Item Type	Description	Cost
Object	Thames & Kosmos Robotics Smart Machine Kit (230 pieces)	\$130
Leaflet	Thames & Kosmos Experiment Manual	N/A
Book	<i>DK Findout! Robots</i>	\$17
Book	<i>Robot</i>	\$20
Packaging & Processing Fee:		\$25
<b>Total Kit Replacement Cost:</b>		<b>\$192</b>



Please verify all parts are present before returning.

