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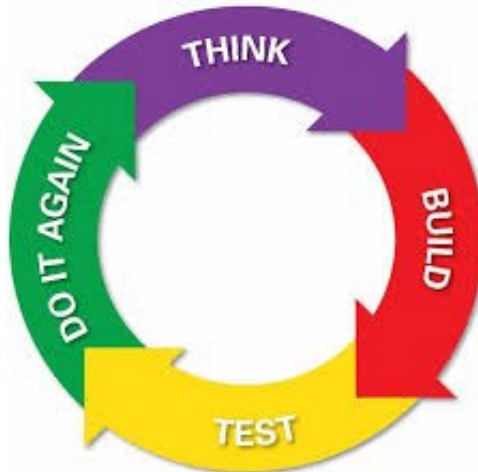
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Engineering Design Process

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 11

Straw Building

Scientific Concept: Physics, Structures

Recommended Ages: 4 to 12

Scientific Practice: Engineering

What to know about this kit:

Straws and connectors allow you to build structures from buildings to models of cars, rockets, and more. Use some of the suggestions in the ideas booklet for projects, or find inspiration from famous buildings around the world!

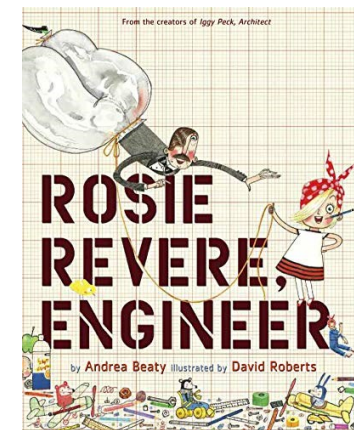
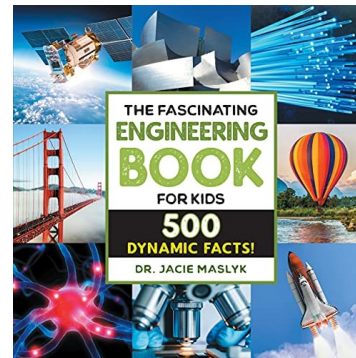
Please note: This kit must be returned to a staff member at the

Irene Ingle Public Library.

874-3535 / wrangell.com/library

Kit Contents & Replacement Costs

Item Type	Description	Cost
Object	Straw Connector Set (330 straws, 16 wheels, 375 connectors)	\$30
Leaflet	Ideas Booklet	N/A
Book	<i>Fascinating Engineering Book for Kids</i>	\$15
Book	<i>Rosie Revere, Engineer</i>	\$20
Packaging & Processing Fee:		\$25
Total Kit Replacement Cost:		\$90



Please verify all parts are present before returning.