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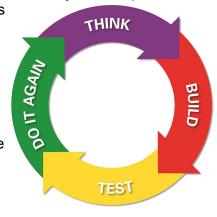
Engineering Design Process

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

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J-KIT STEM

Geometry: 3D Shapes

Mathematics Scientific Concept:

Recommended Ages: 5 to 10

Scientific Practice: Geometric solids

What to know about this kit:

Use the included wood shapes to practice identifying 3D shapes as well as counting faces, edges, and vertices. What can you build using your shapes? How many of each type of 3D shape did you use?

Please note: This kit must be returned to a **staff member** at an **Anchorage Public Library** location.



Kit Contents & Replacement Costs		
Item Type	Description	Cost
Object	Learning Resources Wood Geometric Solids (19 pieces)	\$30
Book	Now What?	\$13
Book	Shapes	\$17
Packaging & Processing Fee:		\$25
Total Kit Replacement Cost:		\$85

