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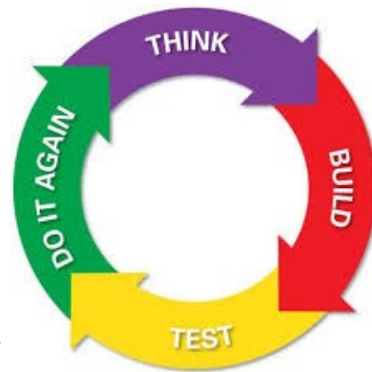
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Engineering Design Process

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 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!

This kit generously sponsored by the
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Puzzles and Brain Teasers

Scientific Concept:	Spatial relations, Geometry
Recommended Ages:	4 to Adult
Scientific Practice:	Engineering

ABOUT THIS KIT:

Explore shapes, patterns, colors, and numbers with this boredom-busting and brain-teasing Discovery Kit. Let the Rubik's Cube challenge your mind, create picture designs with various tangrams, and have fun solving the puzzles and games in the accompanying books.

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	Rubik's Cube	\$10
Object	4 wooden hexagonal puzzles (58 pieces and 1 Russian block puzzle (40 pieces)	\$27
Object	PicassoTiles Wooden interlocking puzzle set (8 puzzles)	\$17
Book	Where's Waldo? The totally essential travel collection	\$15
Book	Brain games: Big book of boredom busters	\$13
Book	Beastly puzzles	\$17
Object	Pencil	n/a
Packaging & Processing Fee:		\$25
Total Kit Replacement Cost:		\$124



Please verify all parts are present before returning.

