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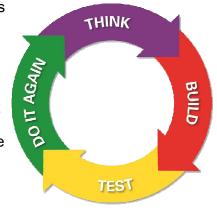
Engineering Design Process

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

Forces & Motion

Scientific Concept: Physics, Gravity

Recommended Ages: 4 to 8

Scientific Practice: Engineering

What to know about this kit:

Learn about physics, gravity, force, motion, and more with this engineering based activity set. Use the included experiment cards to conduct investigations and solve problems.

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 Force & Motion Activity Set (20 pieces)	\$30
Book	Gravity	\$15
Book	Pull It, Push It	\$10
Book	Forces Make Things Move	\$15
Packaging & Processing Fee:		\$25
Total Kit Replacement Cost:		\$95

