Engineering Design Process
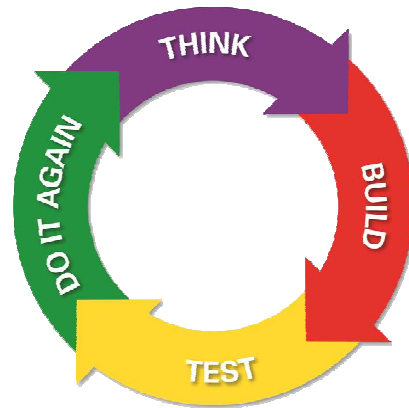
Think, Build, Test, Do It Again

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.

THINK
BUILD
TEST
DO IT AGAIN

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.

This kit generously sponsored by:

Ready Set Create! Design Challenges for Kids

NSF

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.

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

Please verify all parts are present before returning.