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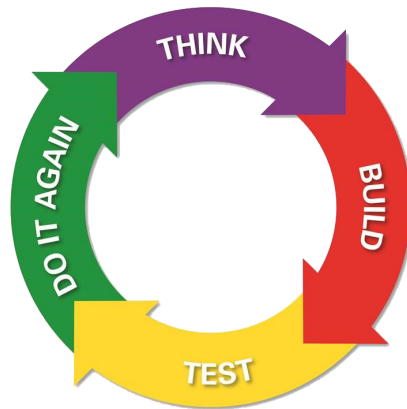


Engineering Design Process

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

Wind Powered Generators

Scientific Concept: Renewable energy

Recommended Ages: 8 to 12

Scientific Practice: Engineering

What to know about this kit:

Learn about renewable energy by reading about and then constructing a 3 foot tall turbine. Your turbine will charge the batteries you can then use to power the model vehicles you build.

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	Thames & Kosmos Experiment Kit	\$50
Object	Wind Power 2.0 Experiment Manual	—
Object	Rechargeable Battery	\$10
Book	<i>Wind, Solar, and Geothermal Power</i>	\$9
Book	<i>Wind Farms: Harnessing the Power of Wind</i>	\$9
Packaging & Processing Fee:		\$25
Total Kit Replacement Cost:		\$103



Please verify all parts are present before returning.