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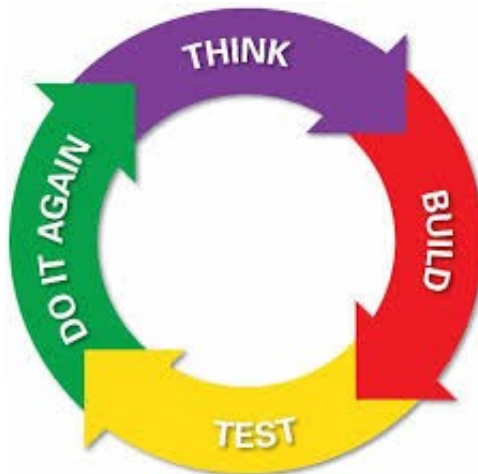
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Engineering Design Process

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'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.

Engineers are creative problem solvers!

This kit was made possible by the
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STEM Kit 3

Electricity & Magnetism

Scientific Concept: Energy/Circuits

Recommended Ages: 8 to 12

Scientific Practice: Engineering

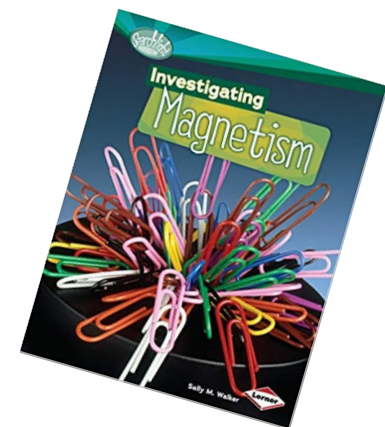
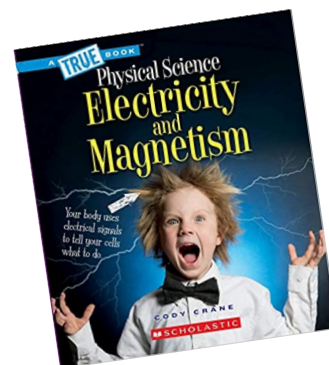
What to know about this kit:

Using simple snap together parts, conduct more than 60 experiments with electricity and magnets. You can build functional devices, learn about magnets and figure out who it all goes together with electromagnetism to see how that could be used in the real world.

Please note: This kit must be returned to a staff member at the Irene Ingle Public Library.

874-3535 / wrangell.com/library

Kit Contents & Replacement Costs		
Item Type	Description	Cost
Object	Thames & Kosmos Electricity & Magnetism set (60 pieces)	\$60
Leaflet	Thames & Kosmos experiment manual	n/a
Book	<i>Investigating Magnetism</i>	\$10
Book	<i>Electricity and Magnetism</i>	\$8
Packaging & Processing Fee:		\$25
Total Kit Replacement Cost:		\$103



Please verify all parts are present before returning.