

Did you enjoy this kit? We'd love to see how you used it! Tag us on social media and let us know! #APLstem

Twitter: @anchlibrary

Facebook & Instagram: @anchoragelibrary



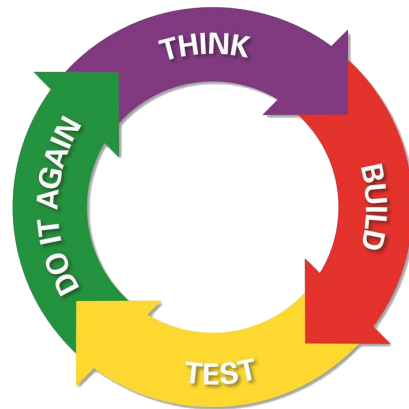
Magnetic Tiles

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 generously sponsored by:



This material is based upon work supported by the National Science Foundation under Grant Number DRL-1657593. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation.

Scientific Concept: Magnetic fields

Recommended Ages: 3 to 6

Scientific Practice: Engineering

What to know about this kit:

Explore the world of magnetic fields and structures using magnetic tiles. Aids in the development of fine motor and spatial skills, shape recognition, and construction skills.

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	Magna-Tiles Kit (32 pieces)	\$50
Book	<i>Look at That Building!</i>	\$17
Book	<i>What Makes a Magnet?</i>	\$8
Packaging & Processing Fee:		\$25
Total Kit Replacement Cost:		\$100



Please verify all parts are present before returning.