

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



J-KIT STEM

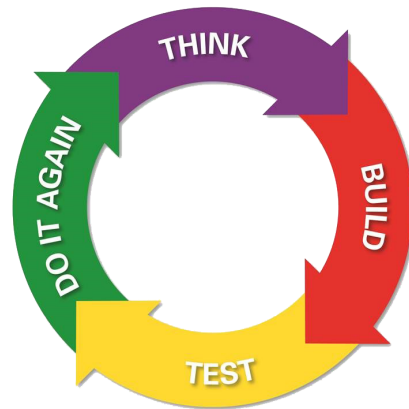
Math Manipulatives

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: Place value, counting, operations
Recommended Ages: 6 to 10
Scientific Practice: Mathematics

What to know about this kit:

This kit provides hands-on materials to help kids learn about place value, counting, operations, and arithmetic equations.

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	Hand2mind Number & Operations Manipulative Kit	\$100
Booklet	<i>Versa Tiles for Number & Operations</i>	\$5
Book	<i>A Place for Zero</i>	\$8
Book	<i>Place Value</i>	\$8
Packaging & Processing Fee:		\$25
Total Kit Replacement Cost:		\$141



Please verify all parts are present before returning.