

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



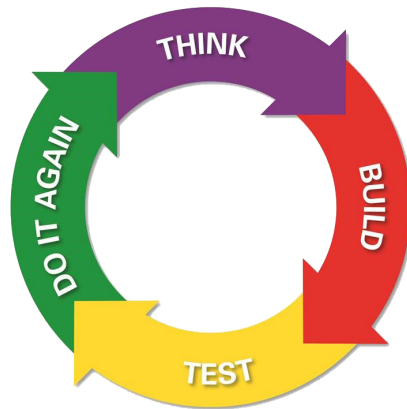
## Counting Cubes

### 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: Mathematics

Recommended Ages: 4 to 7

Scientific Practice: Counting, addition, subtraction

#### What to know about this kit:

Practice counting, adding, subtracting, sequencing and more while also helping develop fine-motor skills with these counting cubes.

*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	Learning Resources Cube Activity Set (115 pieces)	\$25
Book	<i>Just Enough Carrots</i>	\$6
Book	<i>Animals on Board</i>	\$5
Packaging & Processing Fee:		\$25
<b>Total Kit Replacement Cost:</b>		<b>\$61</b>



Please verify all parts are present before returning.