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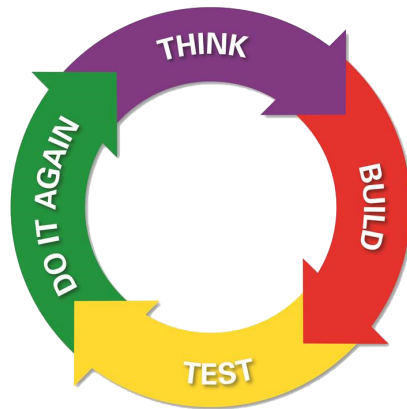


Engineering Design Process

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 generously sponsored by:



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J-KIT STEM

Math Games

Scientific Concept: Mathematics

Recommended Ages: 8 to 12

Scientific Practice: Multiplication, division, addition, subtraction

What to know about this kit:

Prime Climb is a game that mixes strategy and luck as players try to get their pawn to 101 exactly. The color coded board helps with completing the multiplication and the red circles are the prime numbers.

While recommended for players ages 10 and up, younger players can also participate with adult help. 2 to 4 players at a time.

Want to watch a video on how to play?

<https://youtu.be/tWhVw3mTpPU>

*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	Math for Love Prime Climb Game	\$35
Book	<i>Bedtime Math: A Fun Excuse to Stay Up Late</i>	\$17
Packaging & Processing Fee:		\$25
Total Kit Replacement Cost:		\$77



Item	Description	Quantity
Prime Climb Board	Black & folded, with the spiral to play on	1
Pawns	Four colors	8
Dice	10 sided	2
Prime Cards	Black on one side, white on the other	24
Multiplication Table	Black cardstock with color circles	1

Please verify all parts are present before returning.