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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!

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Math Manipulatives

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.
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<td>Booklet</td>
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