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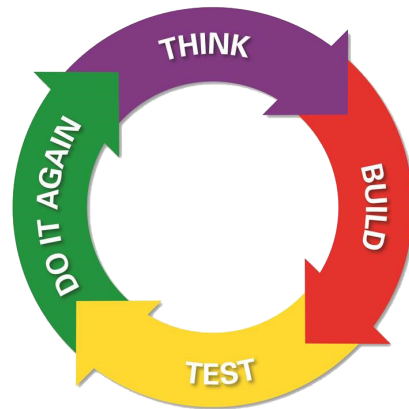
Fossil Excavation

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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Scientific Concept: Archaeology

Recommended Ages: 5 to 12

Scientific Practice: Engineering

What to know about this kit:

Use the included instructions to create your own fossil excavation kit.

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	Ice Cube Tray (1 included)	\$35
Object	Magnifying Glass (1 included)	\$9
Object	Excavation Tool (1 set included)	\$16
Object	Safety Goggles (2 included)	\$4 (\$2 each)
Object	Fossils (6 included)	\$3
Book	<i>Fossils for Kids</i>	\$9
Book	<i>Fossils: A True Book</i>	\$7
Packaging & Processing Fee:		\$25
Total Kit Replacement Cost:		\$108



Please verify all parts are present before returning.