Did you enjoy this kit? We'd love to see how you used it! Tag us on social media and let us know! **#KCLkit**

Kenai Community Library **Facebook** page

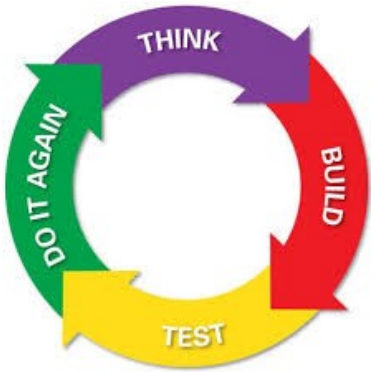
Email us at **kenailibrary@kenai.city**

Or visit **https://www.kenai.city/library/page/steam-kits**

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 have 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. 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!

KENAI

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 Kenai Community Library and the Friends of the Kenai Community Library.

KENAI COMMUNITY LIBRARY

DISCOVERY KIT

HANDS-ON KNOWLEDGE AT YOUR FINGER TIPS

Circuits 2
(Squishy Circuits)

Scientific Concept: Energy, circuits

Recommended Ages: 8 to 12

Scientific Practice: Engineering design

ABOUT THIS KIT

Squishy Circuits use conductive dough (the colored dough) to help you see how energy travels and makes circuits. The white dough is insulating which means it will not conduct energy. Use it to separate out parts of your circuits that shouldn't touch. You can use the battery pack or create your own electricity with the hand crank generator. Can you make something beautiful that is a working circuit?

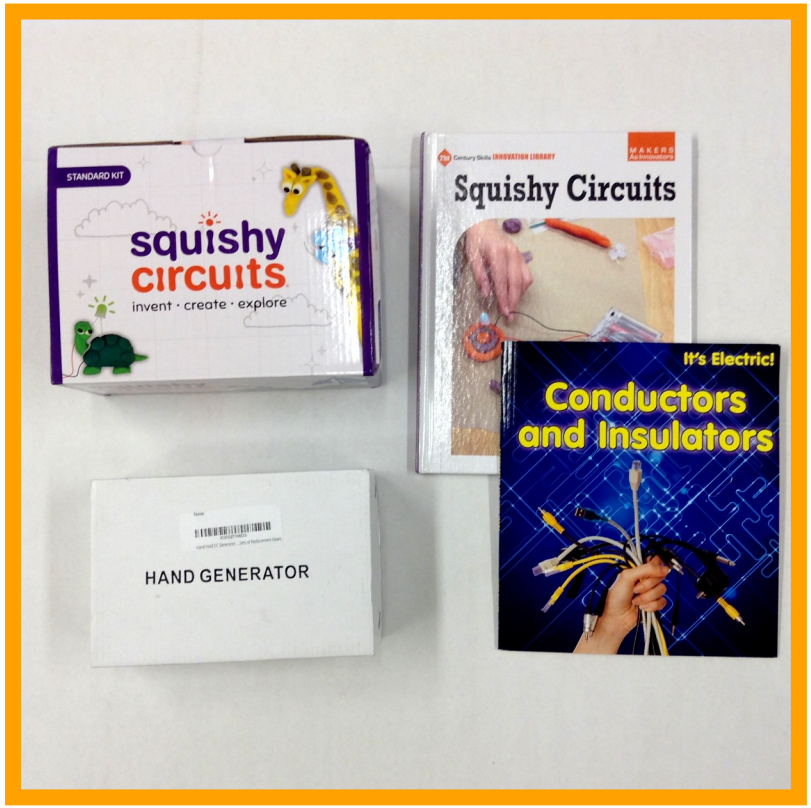
Please note: this kit must be returned to a staff member at the Kenai Community Library Location.

KENAI
KENAI COMMUNITY LIBRARY

163 MAIN STREET LOOP . KENAI, AK . 907-283-4378 . WWW.KENAI.CITY/LIBRARY

Kit Contents
& Replacement Costs

Item Type	Description	Cost
Object	Squishy Circuits Kit: (Dough, LED lights, buzzer, battery holder)	$35
Leaflet	Squishy Circuits quick start guide	n/a
Object	Hand Crank Generator (with cords)	$15
Leaflet	DC Generator instructions	n/a
Book	Building Squishy Circuits	$13
Book	Electricity!	$10
Packaging & Processing Fee:		$25
Total Kit Replacement Cost:		$98



Please verify all parts are present before returning.