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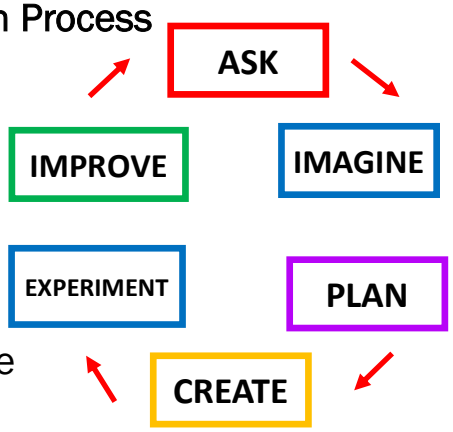
The Engineering Design Process



What is the engineering design process? There are 6 important steps to remember when you are thinking like an engineer. ASK– What problem are you trying to solve? IMAGINE– Can you imagine a solution to the problem? PLAN– Design a plan to solve the problem. CREATE– Use your plan to create a solution. EXPERIMENT– Test out your solution. Does it solve the problem? IMPROVE– Did your experiment work the first time? If not, how can you improve it? Watch this short video clip before you start to learn more about the engineering design process.

www.tinyurl.com/haineskits

Renewable Energy Kit

Scientific Concept:	Change, Models, Systems
Recommended Ages:	10 to 16
Scientific Practice:	Engineering and Design

What to know about this kit:

With this kit you can build different models that are powered by renewable energy sources like wind, sun, and water! You will learn how renewable energy is used in real life to power different devices. Use your skills and imagination to design your own model.

Extension:

Make one of the "super-charged science projects" found in the book, *Catch the Wind, Harness the Sun*. Share your designs with us on Instagram #hainesdiscoverykits or on Facebook @haineslibrary.

Haines Borough Public Library

www.haineslibrary.org/discoverykits

Kit Contents & Replacement Costs		
Item Type	**Description**	**Cost**
Object	K'Nex Education Building Solution Renewable Energy	$135
Leaflet	K'Nex Education Building Instructions; solar, water; wind	n/a
Book	*Catch the Wind Harness the Sun* by Michael Caduto	$10
Book	*Discovering Energy* by Eduardo Altarriba	$20
Missing Pieces Replacement Cost		$5/piece
Total Kit Replacement Cost:		$185

Please verify all parts are present. Use the whiteboard marker to check off all pieces before returning this kit.