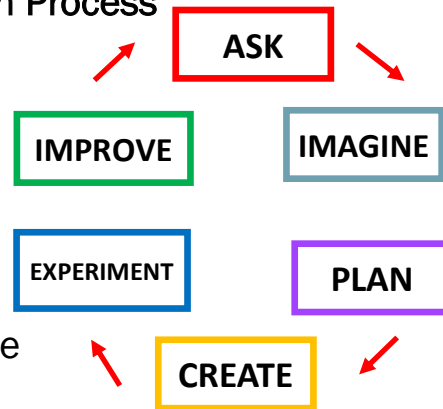


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The Engineering Design Process

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

Bridges

Scientific Concept: Scale and Models

Recommended Ages: 8 to 13

Scientific Practice: Engineering and Design

What to know about this kit:

You can build 13 different bridges using this kit. Try modifying the models to create your own design. Test out your design by using the weight to see how much it can hold. Can you make it stretch between two chairs? Use engineering skills to imagine, plan, create, experiment and improve your design.

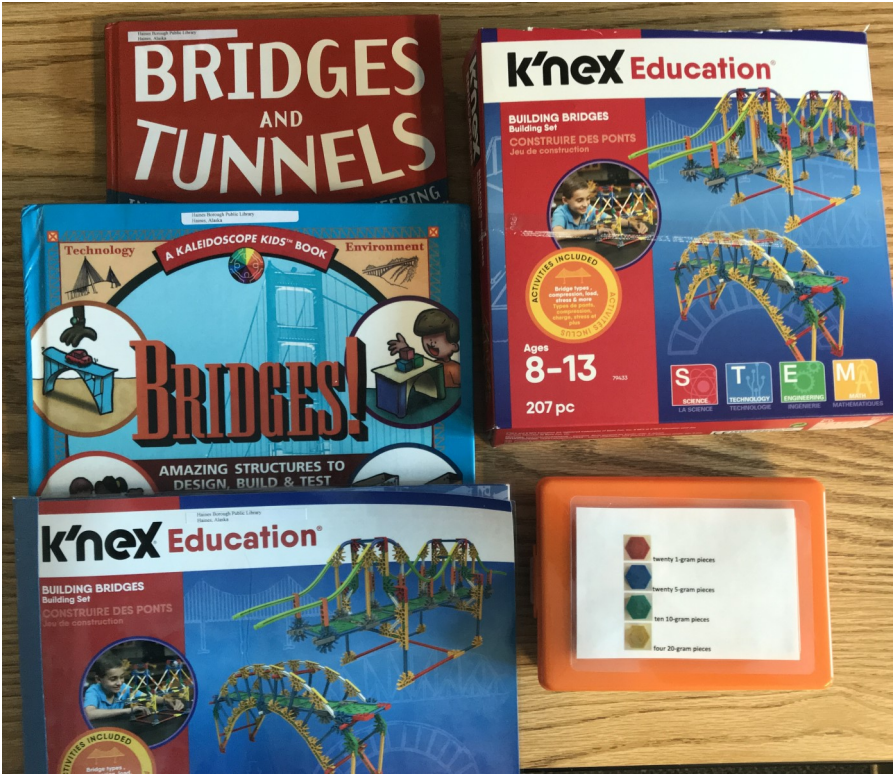
Extension:

Try using supplies found around your home to design your own bridge. How much weight can it hold? Share a picture of your design with the library on Facebook @haineslibrary or on Instagram #hainesdiscoverykits



www.haineslibrary.org/discoverykits

Kit Contents & Replacement Costs		
Item Type	Description	Cost
Object	K'nex Education Building Bridges Kit	\$40
Booklet	Building Guide	n/a
Object	Hexagram Weights (Set of 54)	\$12
Book	<i>Bridges!</i> By Carol Johmann and Elizabeth Rieth	\$25
Book	<i>Bridges and Tunnels</i> by Donna Latham	\$17
Missing Pieces Replacement Cost		\$5/piece
Total Kit Replacement Cost:		\$109



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