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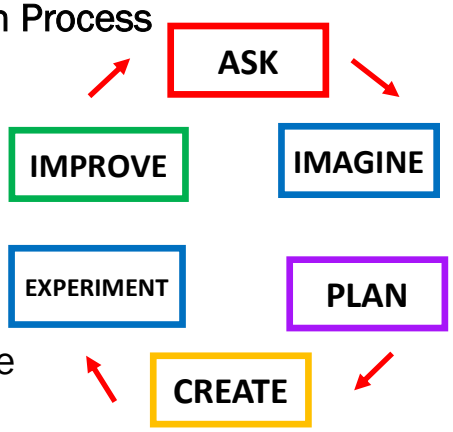
The Engineering Design Process



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

Mechanical Engineering

Scientific Concept: Models, Structure and Function

Recommended Ages: 7-15

Scientific Practice: Engineering and Design

What to know about this kit:

Learn how robotic arms work by building six different models that use pneumatic systems and air pressure to power the arms. Test out your arms to see how mechanical engineering works.

Haines Borough Public Library

Kit Contents & Replacement Costs		
Item Type	**Description**	**Cost**
Object	Mechanical Engineering Robotic Arms	$55
Booklet	Robotic Arms Building Guide	n/a
Book	*Everything Robotics* by Jennifer Swanson	$25
Missing Pieces Replacement Cost		$5/piece
Total Kit Replacement Cost:		$95

Please verify all parts are present before returning. Mark off all pieces with the black whiteboard marker.