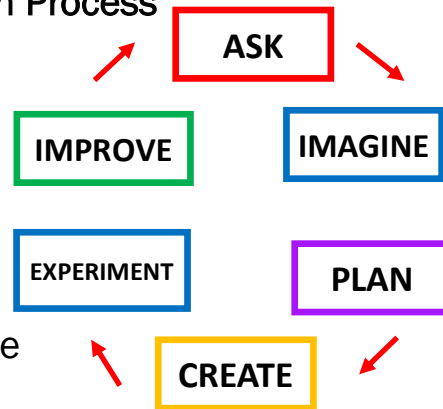## The Engineering Design Process

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

Logical Thinking and Problem Solving

Scientific Concept:	Cause and Effect
Recommended Ages:	8 and up
Scientific Practice:	Math and Computational Skills

What to know about this kit:

Using Turing Tumble you can create and solve over 60 puzzles and discover how simple switches can be connected together to do surprisingly smart things. Explore logic, reasoning and problem solving by using the Turing Tumble board and solving riddles. Using this kit you will gain a deeper and better understanding of how computers work.

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Kit Contents & Replacement Costs

Item Type	Description	Cost
Object	Turing Tumble Game	$75
Booklet	Game Board Book	n/a
Book	*The Challenging Riddle Book for Kids* by Danielle Hall	$13
Book	*How Computers Work* by Nancy Dickmann	$25
Missing Pieces Replacement Cost		$5/piece
Total Kit Replacement Cost:		$128

Please verify all parts and pieces are present before returning this kit to the library.

Includes:
- Puzzle/Comic Book
- Computer Board
- Computer Board Stand
- 30 Ramps/Counterweights
- 10 Bits
- 6 Crossovers
- 8 Gear Bits
- 4 Gears
- 3 Interceptors
- 20 Red Marbles
- 20 Blue Marbles