

You, Fred, the Widget, and the Engineering Design Process

- ASK** – Fred saw a possibility and asked, “How could I make a widget that fills this need?”
- BRAINSTORM** – Fred brainstormed ideas.
- PLAN:** Fred planned his product by drawing designs and making a prototype.
- CREATE:** Fred created the product.
- TEST:** Fred tested the product and liked it.
- SHARE:** Fred marketed the product and you bought one!

Steps	Your Process
TEST: You tested the product when you used it. You didn't like it.	<p>What is a product in your life that needs redesigning?</p> <ul style="list-style-type: none"> • Share ideas and pick one to discuss further.
IMPROVE: You evaluate the product to identify needed improvements.	<p>What improvements are needed?</p> <ul style="list-style-type: none"> • Identify improvements that are needed.
PLAN: You plan how to incorporate these improvements.	<p>What design improvements would you make?</p> <ul style="list-style-type: none"> ◦ Identify the most important improvements – and how they would improve the product better.
CREATE: You create new prototypes.	
TEST: You test and cycle through these four steps until you are satisfied with the results!	<p>How would you determine if these improvements worked?</p> <ul style="list-style-type: none"> • Identify how you could evaluate your improvements
SHARE: You market your new product and make millions!	
What did Fred do right?	What did Fred do wrong?