

Name:

Date:

Class:

The Power in Prosthetics - Exit Ticket **Answer Key**

Directions: Use the descriptions in the box to label each statement. Write the descriptions on the line of each statement.

Engineering and Design Process Descriptions
<ul style="list-style-type: none">• Create (Build a Prototype)• Research the Problem• Improve (Redesign as needed)• Ask (Identify the Needs and Constraints)• Plan (Select a Promising Solution)• Test and Evaluate• Imagine (Develop Possible Solutions)

1. This step of the engineering design process involves drawing new designs and making your prototype the best it can be: _____ **Improve (Redesign as Needed)** _____
2. This step involves engineers asking questions about what they want to create and a problem to solve: _____ **Ask (Identify the Needs and Constraints)** _____
3. This part of the process involves whether the prototype worked or if it solved the problem: _____ **Test and Evaluate** _____
4. This step may involve talking to people from different backgrounds to help with identifying solutions that may already exist: _____ **Research the Problem** _____
5. This part of the process involves building your prototype: _____ **Create (Build a Prototype)** _____
6. This step of the process may include working with a team to think of ideas and possible solutions: _____ **Imagine (Develop Possible Solutions)** _____
7. This step may involve revisiting needs, constraints, and research from previous steps, comparing your best ideas, and choosing one answer: _____ **Plan (Select a Promising Solution)** _____