**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.

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| **Engineering and Design Process Descriptions** |
| * 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)
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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) \_\_\_\_\_\_\_\_\_\_\_