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

- 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) __________