

Name:

Date:

Class:

## Prosthetic Hand Design Worksheet

### Ask: Goal Statement

You are acting as biomedical and mechanical engineers. Your mission: **Design and build a smart prosthetic hand that senses pressure and responds to different angles, just like a real hand.**

What does your prosthetic hand need to do? (Describe the main purpose of your design.)

☛ *Write your team's goal below:*

### Brainstorm: Key Features of Prosthetic Grip

What should your prosthetic include to work well? Think about:

- Shape and movement.
- Materials to use.
- Where to place the force sensor.
- Where the servo motor will go.

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### Plan: Smart Prosthetic Hand Design Sketch

Use the space below to draw your initial design of the prosthetic hand.

Label the key parts:

- Servo motor
- Force sensor (FSR)
- Finger or gripping mechanism
- Materials (e.g., cardboard, rubber bands, string)
- Any moving joints

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