**The Power in Prosthetics - Planning and Materials Worksheet**

**Your Task:**

Design and build a functional prosthetic hand with moveable parts. Your prototype should be able to pick up three different items: one small, empty Styrofoam cup, one large foam die, and one whiteboard eraser.

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| **Materials** (Check off after each item is gathered.) |
| * + pre-cut hand tracings - (choose cardboard, cardstock, or construction paper)
* 4 pieces of masking tape
* scissors
* whiteboard eraser
* ruler (optional)
* glue (optional)
* thread (optional)
 | * 5 small colored drinking straws
* large straw
* small Styrofoam cup
* large foam die
* notebook (or notebook paper)
* pencils
* 5 pieces of twine string
* latex glove
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| **Constraints** |
| * You MUST plan for your prototype (worksheet) and show to the teacher BEFORE

collecting your materials. You MUST keep track of your used materials by checking them off on the planningworksheet OR recording them in your notebooks. * You MUST record your observations in your notebooks.
* For the hand portion of your prototype, you may choose cardboard, card stock, OR construction paper (cannot choose more than one).
* You can only use the selected amount of materials listed (For example, you CANNOT use more than 4 pieces of masking tape).
* Materials that are listed as “optional” will be used as needed (cannot use an

extreme amount). |

**Begin your plan on the back of this paper. Remember to draw AND label your prototype!**

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| **Draw and Label Your Design** |
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