

Group Name: \_\_\_\_\_

Your Name \_\_\_\_\_

### ENGINEER: RESEARCH GUIDE

#### COLLABORATE WITH YOUR MARKETING SPECIALIST:

1. What are your three marketing demands/performance tasks?
  - I.
  - II.
  - III.
2. Research 5 current prosthetics that are available on the market and complete the table below:

Name of Prosthetic	Prosthesis #1	Prosthesis #2	Prosthesis #3	Prosthesis #4	Prosthesis #5
Manufacturer (Name, Location, website)					
Cost (In dollars and in your client's currency)					
Special Characteristics/ terminal end designs					
Performance tasks that this prosthetic is designed for					
What materials is the prosthesis made of?					
How is the prosthesis is controlled					
Other Notes & Observations					

#### DESIGN IDEAS:

3. What type(s) of terminal ends could you use to accomplish your performance tasks?
4. How do you envision CONTROLLING the motion of your prosthetic?

#### MATERIALS FOR ACTUAL PROSTHETIC:

5. What types of materials could you build a prosthetic out of that are durable?
6. What types of materials are strong under stress?
7. What types of materials are both light-weight but strong and durable?

#### MATERIALS FOR PROTOTYPE:

8. What types of materials could you use to build your prototype?
9. Where could you get these materials? (Collaborate with team mates to find materials you will need)