

Group Name: _____

Biomechanical Specialist

Your name: _____

1. Research the biomechanics of the hand:

- a. How much does an average hand and/or arm weigh (in pounds and Newtons)?
- b. How strong can a grip be (in pounds and Newtons)?
- c. How much force does it take to break a bone, tendon, or a ligament (pounds and Newtons)?

2. Research how to mimic the movement of the hand?

Body parts of the hand/arm	Function / purpose	Materials that could be used in prototype to mimic body part in hand/arm
Bone		
Ligament		
Tendon		
Muscle		
Skin		