

**SCORE SHEET FOR BIOMEDICAL ENGINEERING – PROSTHETIC ARM
GRADE: High School**

Copies of this score sheet will be provided by Colorado MESA.

Students Name(s): _____

School: _____

Judges: _____

Part I: MODEL COST and WEIGHT (0 – 20 points total)

Total Cost = _____ (from “Materials Table”)

Total Cost (10 points total – circle corresponding points below)

Total Cost	Points
Under \$5.00	10 points
\$5.01 - \$7.00	8 points
\$7.01 - \$9.00	6 points
\$9.01 - \$11.00	4 points
Over \$11.01	2 points
Not included or inaccurate/unreasonable	0 points

Weight = _____ (ounces)

Weight (10 points total – circle corresponding points below)

Total Weight	Points
Under 6 ounces	10 points
6.1 ounces – 10.0 ounces	8 points
10.1 ounces – 14.0 ounces	6 points
14.1 ounces – 20.0 ounces	4 points
20.1 ounces – 30.0 ounces	2 points
Over 30.1 ounces	0 points

Subtotal for Part I _____



2009-10 High School Science and Engineering Jamboree
Design Challenge Rules - April 20, 2010

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Part II: CREATIVITY and INNOVATIVE DESIGN of Model (0 – 10 points total)

Up to 5 points for each of the below:

- 1. Creativity of Model _____
- 2. Innovative Engineering Design of Model _____

Subtotal for Part II _____

Part III: OPERATION of Prosthetic Arm (0 – 20 points, plus 5 bonus points = 25 pts total)

Trial 1: _____ (ml of sand poured) _____ (time in seconds – within 30 seconds)

Trial 2: _____ (ml of sand poured) _____ (time in seconds – within 30 seconds)

Circle best of two trails below and award corresponding points:

<i>Sand Poured into Cup</i>	<i>Points</i>
50 ml	20 points
35 ml – 49 ml	8 points
20 ml – 34 ml	6 points
0.1 ml – 19 ml	4 points
0 ml	2 points

Bonus Points: Add 5 bonus points if model poured all 50 ml of sand into the coffee mug in less than 15 seconds in the same trial.

Subtotal for Part III _____

GRAND TOTAL _____

(Ass subtotals for Part I – Part III)

Maximum score is 55

DEDUCT 6.5 POINTS FROM GRAND TOTAL IF MODEL IS NOT CLEARLY LABELED WITH STUDENT NAME(S) AND SCHOOL