

Body Forward  
Mission Analysis

| T#    | Mission                     | Task  | Points | Difficulty/Risk<br>(Hi/Med/Lo) | Type (R, D, A)<br>(Retr/Deliv/Act) | Attachment Type<br>(Gripper/Pusher/?) | Req'd Sensors<br>(Lt, US, T, Rot, Time) | Distance from Base<br>(Hi/Med/Lo) | Sequence<br>(Before/After #) | Est. Time<br>(sec) | Run # |
|-------|-----------------------------|---|--------|--------------------------------|------------------------------------|---------------------------------------|---|-----------------------------------|------------------------------|--------------------|-------|
| 1     | Common Bone Repair          | Set bone and apply cast over break                                      | 25     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 2     | Special Bone Repair         | Bone bridge inserted  | 15     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 3     | Special Bone Repair         | Goal scored   | 25     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 4     | Rapid Blood Screening       | Syringe to base   | 25     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 5     | Rapid Blood Screening       | 3 white cells to patient's area   | 15     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 6     | Bad Cell Destrucion/ld      | ld -Black up or north 20 pts<br>OR Destruction - black all north 25 pts | 25     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 7     | Mechanical Arm Patent       | Get mechanical hand to hold patent                                      | 25     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 8     | Cardiac Patch               | Get cardiac patch into heart  | 20     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 9     | Pace Maker                  | Install pace maker (black in/gray out)                                  | 25     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 10    | Nerve Mapping               | Move west input nerve to reveal output                                  | 15     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 11    | Object Control thru Thought | Open door at least halfway by moving South input nerve                  | 20     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 12    | Medicine Auto Dispensing    | Blue and Whites off/Pinks on  | 25     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 13    | Medicine Auto Dispensing    | Blue and White in container in Patient's Area (at least 1 of each)      | 5      |                                |                                    |                                       |   |                                   |                              |                    |       |
| 14    | Robotic Sensitivity         | Push blue panel to left weight up                                       | 25     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 15    | Professional Teamwork       | Deliver doctor and engineer to patient area                             | 25     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 16    | Red Blood Cells             | Red Blood Cells Remaining 5pts ea                                       | 40     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 17    | Bionic Eyes                 | At least 1 eye on upper body  | 20     |                                |                                    |                                       |   |                                   |                              |                    |       |
| 18    | Stent                       | Insert stent into artery to make walls parallel                         | 25     |                                |                                    |                                       |   |                                   |                              |                    |       |
| Total |                             |   | 400    |                                |                                    |                                       |   |                                   | Total time                   | 0                  |       |
|       |                             |   |        |                                |                                    |                                       |   |                                   | Time Allowed                 | 150                |       |