**M01 – Space Travel** *Start each payload rolling down the ramp*

| Vehicle Payload | Yes / No | 22 pts. |
| --- | --- | --- |
| Supply Payload | Yes / No | 14 pts. |
| Crew Payload | Yes / No | 10 pts. |

**M02 – Solar Panel Array** *Angel your solar panel towards the opposite field*

| Your panel angled towards other field | Yes / No | 18 pts. |   |
| --- | --- | --- | --- |
| Both panels angled towards same field | Yes / No | 22 pts. | **Bonus:** Other team also gets 22 points |

**M03 – 3D Printing** *Eject the 2x4 brick by placing the Regolith into the printer*

| Ejected… | Yes / No | -- |
| --- | --- | --- |
| & partly in the Northeast Planet Area | Yes / No | 18 pts. |
|  **OR** & fully in the Northeast Planet Area | Yes / No |  **OR** 22 pts. |

**M04 – Crater Crossing** *Cross from East to West past the flattened gate*

| Crossed completely between the towers | Yes / No | 18 pts. |
| --- | --- | --- |

**M05 – Extraction** *Manipulate the core samples*

| Move all four core samples off of axle | Yes / No | 16 pts. |
| --- | --- | --- |
| Gas sample touching mat in Lander’s Circle | Yes / No | 10 pts. |
| **OR** Gas sample completely in base | Yes / No |  **OR** 12 pts. |
| Water sample supported by Food Growth Chamber | Yes / No | 8 pts. |

**M06 – Space Station Modules** *Move and insert the space station modules*

| Cone Module completely in base | Yes / No | 16 pts. |
| --- | --- | --- |
| Tube Module into west side of Habitation Hub port | Yes / No | 16 pts. |
| Dock Module into east side of Habitation Hub port | Yes / No | 14 pts. |

**M07 – Space Walk Emergency** *Move Gerhard's body into the Habitation Hub’s Airlock Chamber*

| Body partly in chamber | Yes / No | 18 pts. |
| --- | --- | --- |
| **OR** Body fully in chamber | Yes / No | **OR** 22 pts. |

**M08 – Aerobic Exercise** *Advance the Exercise machines pointer using the handle assemblies*

| Pointer completely in orange (or on orange border) | Yes / No | 22 pts. |
| --- | --- | --- |
| **OR** Pointer completely in white | Yes / No |  **OR** 20 pts. |
| **OR** Pointer completely in gray (or on gray border) | Yes / No | **OR** 18 pts. |

**M09 – Strength Exercise**  *Lift the strength bar*

| Strength bar lifted, strip's 4th hole in view | Yes / No | 22 pts. |
| --- | --- | --- |

**M10 – Food Production**  *Spin the food growth chamber's colors using the push bar*

| Gray weight dropped after green but before tan | Yes / No | 16 pts. |
| --- | --- | --- |

**M11 – Escape Velocity**  *Get the spacecraft to stay up by pressing the strike pad*

| Spacecraft is up | Yes / No | 24 pts. |
| --- | --- | --- |

**M12 – Satellite Orbits**  *Move Satellite Parts*

| How many satellite parts are between the two lines? | \_\_\_\_\_\_\_\_\_\_ | 8 pts. | each |
| --- | --- | --- | --- |

**M13 – Observatory**  *Move pointer tip*

| Pointer completely in orange (or on orange border) | Yes / No | 20 pts. |
| --- | --- | --- |
| **OR** Pointer completely in white | Yes / No |  **OR** 18 pts. |
| **OR** Pointer completely in gray (or on gray border) | Yes / No | **OR** 16 pts. |

**M14 – Meteoroid Deflection** *Send meteoroids over the free line to touch the mat in the Meteoroid Catcher*

| How many meteoroids in the center section? | \_\_\_\_\_\_\_\_\_\_ | 12 pts. | each |
| --- | --- | --- | --- |
| How many meteoroids in *either* side section? | \_\_\_\_\_\_\_\_\_\_ | 8 pts. | each |

**M15 – Lander Touch-down** *Move the lander*

| Make Lander in tact, touching mat in Target Circle | Yes / No | 22 pts. |
| --- | --- | --- |
| **OR** Make Lander in tact, touching mat in Northeast Planet Area | Yes / No |  **OR** 20 pts. |
| **OR** Move both parts of Lander completely in Base | Yes / No | **OR** 16 pts. |

| **P01 - Penalties** | **Match/Round** | **Total Score** | **Signature** |
| --- | --- | --- | --- |
|  |  | pts. |  |
| *-3 points each* |  | *Missions - penalties* |  |