

**FIRST® LEGO® League Scoring Sheet - INTO ORBIT**  
 Powered by Jared Hasen-Klein's Resource Hub - fl118.jaredhk.com

**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**

*Angle 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.
<b>OR</b> & fully in the Northeast Planet Area	Yes / No	<b>OR 22 pts.</b>

**M04 – Crater Crossing**

*Cross from East to West past the flattened gate*

Crossed completely between the towers	Yes / No	18 pts.
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**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.
<b>OR</b> Gas sample completely in base	Yes / No	<b>OR 12 pts.</b>
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.
<b>OR</b> Body fully in chamber	Yes / No	<b>OR 22 pts.</b>

**M08 – Aerobic Exercise**

*Advance the Exercise machines pointer using the handle assemblies*

Pointer completely in orange (or on orange border)	Yes / No	22 pts.
<b>OR</b> Pointer completely in white	Yes / No	<b>OR 20 pts.</b>
<b>OR</b> Pointer completely in gray (or on gray border)	Yes / No	<b>OR 18 pts.</b>

**M09 – Strength Exercise**

*Lift the strength bar*

Strength bar lifted, strip's 4th hole in view	Yes / No	22 pts.
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**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.
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**M11 – Escape Velocity**

*Get the spacecraft to stay up by pressing the strike pad*

Spacecraft is up	Yes / No	24 pts.
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**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.
<b>OR</b> Pointer completely in white	Yes / No	<b>OR 18 pts.</b>
<b>OR</b> Pointer completely in gray (or on gray border)	Yes / No	<b>OR 16 pts.</b>

**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.
<b>OR</b> Make Lander in tact, touching mat in Northeast Planet Area	Yes / No	<b>OR 20 pts.</b>
<b>OR</b> Move both parts of Lander completely in Base	Yes / No	<b>OR 16 pts.</b>

**P01 - Penalties**

**Match/Round**

**Total Score**

**Signature**

			pts.	
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-3 points each

Missions - penalties