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Into Orbit Mission Mix and Match: Answers

For teachers only!

M01 - SPACE TRAVEL	The Robot needs to send Payload rockets (carts) rolling down the Space Travel Ramp. The first cart is pre-set and ready to go, but the Robot needs to load the other two from Base.
M02 - SOLAR PANEL ARRAY	Solar Panels need to be Angled toward or away from you, depending on strategy and conditions.
M03 - 3D PRINTING	The Robot needs to get a Regolith Core Sample and place it into the 3D Printer, which will cause the 2x4 Brick to pop out. The ejected 2x4 Brick can then be delivered elsewhere for more points.
M04 - CRATER CROSSING	The Robot or whatever agent-craft it sends out needs to cross the Craters Model completely, by driving directly over it. Not near it. Not around it.
M05 – EXTRACTION	The Robot needs to get all the Core Samples out of the Core Site Model, then it has options for what to do with them as described
M06 - SPACE STATION MODULES	The Robot needs to remove and insert Modules among the Habitation Hub's port holes
M07 - SPACE WALK EMERGENCY	The Robot needs to get Gerhard's body into the Airlock Chamber.
M08 - AEROBIC EXERCISE	The Robot needs to repeatedly move one or both of the exercise Machine's Handle Assemblies to make the Pointer advance.
M09 - STRENGTH EXERCISE	The Robot needs to lift the Strength Bar to scoring height.
M10 - FOOD PRODUCTION	Move the Push Bar the right distance at the right speed, to get into the green scoring range.
M11 - ESCAPE VELOCITY	The Robot needs to impact the Strike Pad hard enough to keep the spacecraft from dropping back down.
M12 - SATELLITE ORBITS	The Robot needs to move one or more Satellites to the Outer Orbit.
M13 – OBSERVATORY	A space telescope is astonishing, but it can't beat the accessibility and simplicity of a college or science museum observatory - that is, if you know how and where to point it.
M14 - METEOROID DEFLECTION	From west of the Free-Line, send one or both Meteoroids Independently to the Meteoroid catcher.
M15 - LANDER TOUCH- DOWN:	Get the Lander to one of its targets intact, or at least get it to Base.



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Draw a line from the mission to the correct definition!

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