

Lunar Work Table

Would spiked legs, such as those seen on the ends of surveying land tools, be useful on the moon's surface?

I think those could be valuable. Careful about how sharp the tips are

Can the stakes come out easily?

I expect they should come out of the soil easily.

What kinds of work will be done on this table?

I'm expecting they may use it for assembly and repair of equipment, maybe for holding experiments as they prep them for deployment on the moon.

Are specific tools going to be used on this table?

I don't know which tools may be used. It would be valuable to talk to someone who does construction and might use a similar type of portable table and ask how they use it.

What type of light is more effective? LEDs, yellow lights, etc.

LED's make good sense and could be dimmable. They might be battery powered so that they don't have to plug the table in to use the lights.

Does the extension cord need to be attached to the table? Can it be an add-on that hooks onto the table/etc?

I hadn't thought of that. That could be a good option.

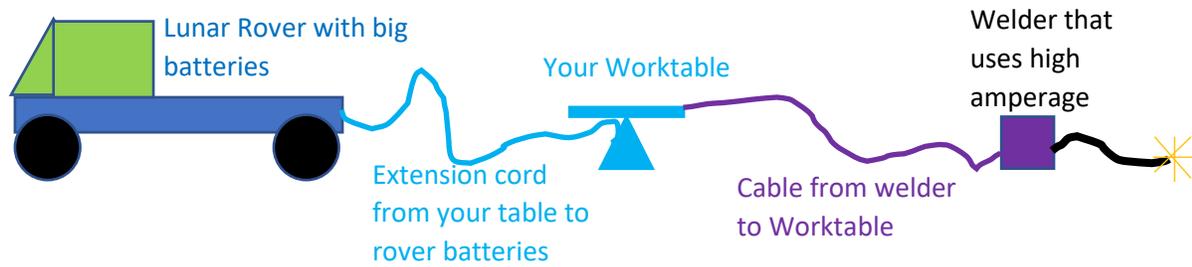
Does the table have to be foldable?

It needs to be collapsible in some fashion so that it takes up less space when it is on their "work truck".

Does the table need space for attachments?

I'll leave that up to you. What kind of attachments would you want.

Originally in the description of the project, I made the requirement for 4 outlets. After looking at it more carefully, I think you only need 2 outlets preferably placed on opposite sides of the table. Below is a pictorial description of how I would expect the table to be used—where the astronaut is trying to weld something in a hard to reach location (rocks are in the way of the rover getting closer) and needs extra length of cord to get to the weld site.



Since most of the tools used on the moon will be battery powered, I don't expect that there will be a lot of uses for extension cords and powering equipment. This is why I think 2 outlet may be all we need (and it saves you money and effort). This Worktable you are designing will hopefully handle those few needs that may be helpful.