CONTEST OF CHAMPIONS

TASK #4: ENGINEER A NEW TOOL

Purpose:	Use your creativity, engineering, and artistic skills and imagine how we might meet the needs of people for an extended time in space.
Steps:	 Think about the kinds of jobs people in a space station might need to do. Identify one job that seems really interesting and brainstorm a tool that would be helpful for that job. Design what that tool might look like. Build a working prototype using cardboard, foam board, craft sticks, 3d printers, etc. Be prepared to explain what the tool does and how it works.
Tips:	 Plan on building multiple versions of your tool and to make it better each time. Use Tinkercad.com to make a 3d model of your tool. Show your invention to others and ask for suggestions.

Parent Corner:

- 1. The Orem Library Makerspace might be a good resource for this (https://www.oremlibrary.org/orem-library-makerspace/)
- 2. Provide extra supervision if the children will be working with sharp edges or hot surfaces
- 3. Help make sure everyone on the team contributes to the project.
- 4. They will need to show off their invention later so keep it in a safe place until the team gets to Task #7.