

Navigational Course (*Space Clean-Up*)

DESCRIPTION: Team Driving involving a team of two or more with the whole team only seeing the monitors of the field, through a TV monitor in order to dodge obstacles and pick up space debris to be transported to a collection location. The tasks for each location will remain in the same relative position as the location. The team can consist of up to two robots on the mat at the same time. The robots may work together or separately on the tasks. Size of field will be 20' X 20'. All Robots will need to fit inside a box 18" X 18" X 18".

Rules

1. Participants will have 5 minutes to complete the course. All team members may have hands on time in controlling the bot.
2. The team will not be able to physically see the driving course, but team members will view the course from video camera feeds to TV monitors.
3. The bot must navigate to the each location and complete a designated task. Teams may complete the tasks in any order.
4. Each item delivered to the Collection Station receives its respective amount of points. An event official will be located at the Collection Station to remove objects from the robot once it is completely inside of the scoring zone.

Scoring

1. Each Low Atmosphere Debris Object collected and delivered- 1 point
 - Low Atmosphere Debris Objects are small and lightweight. Examples include nuts and screws.
2. Each ISS Debris Object collected and delivered- 2 points
 - ISS Debris Objects are of medium size and weight. Examples include ½ inch conduit and heavy bolts.
3. Each Worm Hole Debris Object collected and delivered- 5 points
 - Worm Hole Debris Objects are large and heavier. Examples include Red Bull cans wrapped in duct tape and tuna cans with screws embedded so as to represent satellites.
4. Worm Hole Travel - one point will be awarded for each time the teeter driven over. An additional point will be awarded for each time the robot travels through the Worm Hole.

