

MISSION HORIZON

LOOKING TO THE FUTURE



Asteroids & Touch Penalties Starting/ Scoring Positions

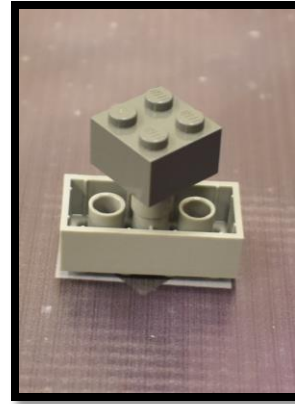
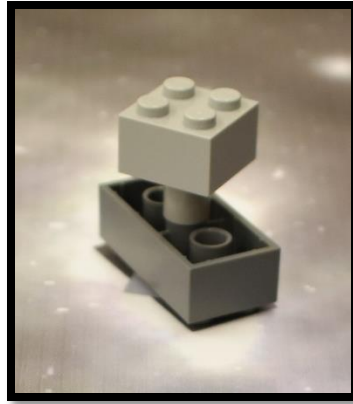
The intent of this document is to show a close-up view of the mission object's "Starting" and "Scoring" positions in support of the Mission Horizon, Looking to the Future challenge. Make sure to review all of the Mission Horizon Challenge's videos and documents to prepare for this year's challenge. Also, the General Rules have been updated for 2019. Make sure to review the General Rules with your team before you start.

Starting Position

There are 4 different asteroids on the mat: Brown Asteroids, Tan Asteroids, Grey Asteroids, and Space Minerals. The Space Minerals are explained in the document for Mission 9.

The Brown Asteroids and Tan Asteroids are Dual Locked in position. They have no point value. They are obstacles across the mat for you to consider as you develop your strategy of how to accomplish the missions for the Mission Horizon Challenge.





The Grey Asteroids are the Touch Penalties. You will find 5 of these Grey Asteroids across the mat.



Scoring Position

Brown Asteroids

Tan Asteroids

Grey Asteroids

Leave them on the mat.

Recover them to the Safe Zone

No Point Value

No Point Value

5 Points each, Maximum 25 Points

10 Points each, Maximum 50 Points



Touch Penalties

Any time a team member touches the robot outside of the Safe Zone, a Touch Penalty will be accessed. You will need to restart your robot from the Safe Zone. You will lose any Deliverable or Retrievable Object in control of the robot at the time the Touch Penalty is accessed. Those items will be placed on the mat roughly the location of the penalty.



The referee will take 1 Grey Asteroid, Touch Penalty Object, from the mat for each Touch Penalty accessed. Touch Penalties will be taken from nearest the East Wall first, moving toward the West Wall last. During the match, robot action may move Touch Penalty Objects. The referee will take the Touch Penalty Object available which is located nearest to the East Wall. Touch Penalties objects may be taken from the Safe Zone. For each Touch Penalty taken, your team loses the opportunity to score points for that Grey Asteroid.

