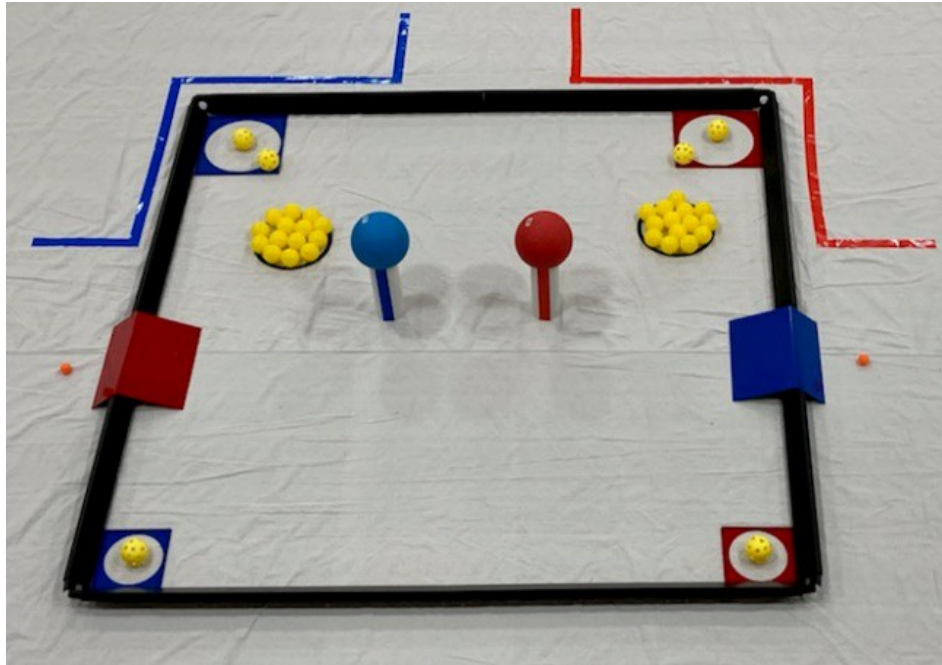


Diamond Dash - Collaboration Game Description 2021-2022



The Game: Diamond Dash - Collaboration, a robotics competition for students in 6th grade and younger is played on the field shown above which is approximately 8' x 8'. Alliances, made up of four randomly paired teams, collaborate to score as many points as possible. Matches are 90 seconds in length. The controller of the robot must be passed from one driver to the other between twenty-five and forty seconds from the start of the match.

The object of the competition is to attain a higher combined score than all the other teams. Points are scored by performing tasks with your robot, which can be no larger than 14" x 14" x 14" at the beginning of the match.

This includes the mandatory tasks of:

- ◆ Two medium balls in each of the four goals
- ◆ Both Towers are knocked down
- ◆ One Small ball is scored in a goal
- ◆ Two robots exit the field

If all mandatory tasks are completed the teams can

elect to set their remotes down and end the match. Any time remaining on the clock is then added to the bonus points earned up to that point.

Scoring:

<i>Object</i>	<i>Scoring Task</i>	<i>Points</i>
Very Large Balls	Both Very Large Balls removed from the field or scored in a goal (or one ball out and the other scored)	25 points
Large Ball	At least four Large Balls removed from the Goals	20 points
Medium Balls	At least 12 Medium Balls scored in a single Goal	25 points
Small Balls	Both Small Balls scored in a Goal (can be one goal or two)	10 points
Robots	All four robots exit the field via the ramps	25 points
Clock	Time remaining of the count down clock if all mandatory tasks are completed	1-35 points

