

4 THE ARENA

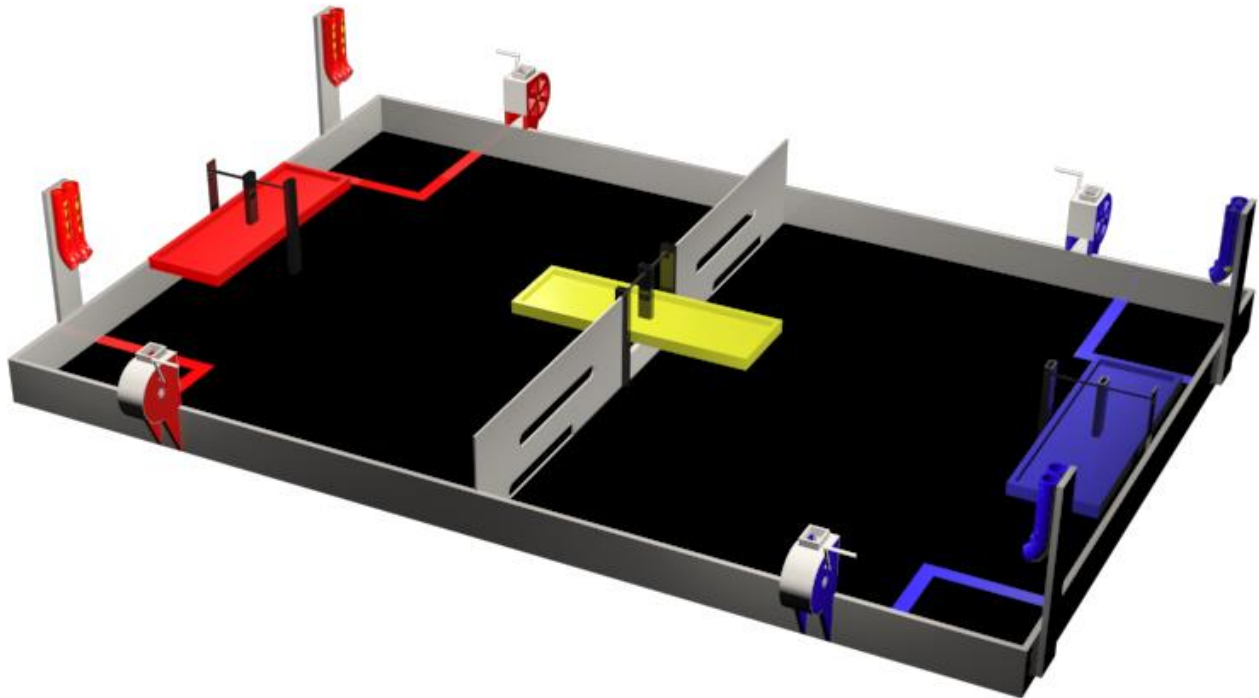
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4 THE ARENA

4.1 OVERVIEW

The following sections describe the field and the game pieces used in the 2017 Junior



Robotics League competition. Please be sure to read Sections 4, 5, 6 and 7 to fully understand the game.

Note: The illustrations in this section of the manual are for a general visual understanding of the On The Edge arena only. Please refer to the official drawings for more accurate dimensions and construction details.

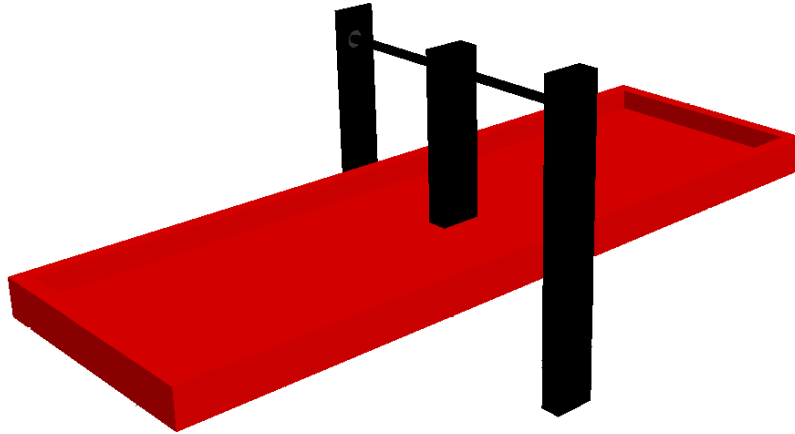
4.2 THE QUARRY

The game field, known as the Quarry, is an regular rectangular field divided into equal alliance halves . Each alliance has a scale located on their far edge of the alliance zone. Gems are entered into the Quarry through an Alliance’s Waterwheel that is located on each side of the field. See *4.4 Arena Layout* for field element locations.

Note: The measurements given below are for general information only. See the official drawings for more accurate dimensions.

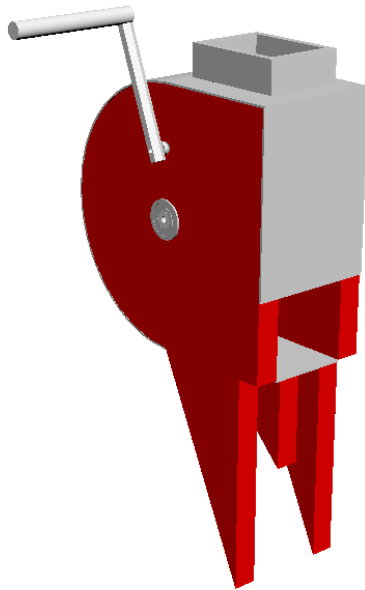
4.2.1 The Alliance Scale

At each end of the field there is an Alliance Scale. Alliance robots will place Gems onto the Alliance Scales in order to balance for the endgame. See *4.4 Arena Layout* for field element locations.



4.2.2 The Waterwheels

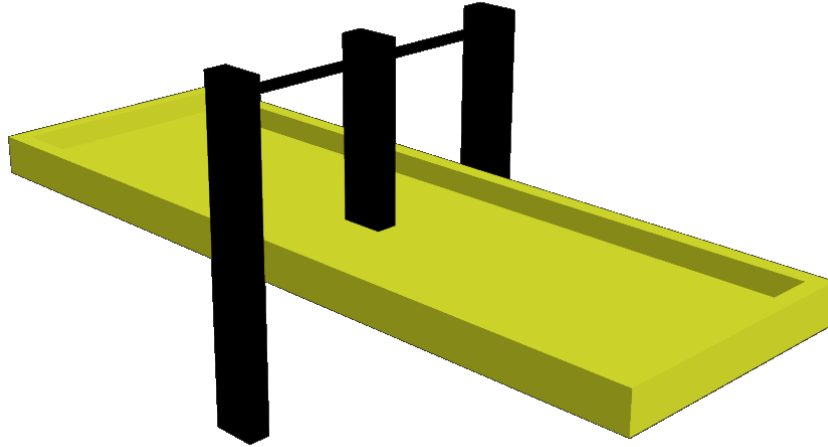
On each alliance side of the Quarry are two Waterwheels. Each Waterwheel will be operated by a human player to enter Gems onto the field. See *4.4 Arena Layout* for



field element locations.

4.2.3 The Coopertition Scale

The Coopertition Scale is designed for both alliances to place Gems onto their side of the scale so that the scale balances. Each alliance will be given bonus points at the end of the match if successfully balanced. See *4.4 Arena Layout* for field element locations.



4.2.4 The Cliff

The Cliff spans across the entire midfield dividing each alliance. The Cliff has a low rectangular cut out for moving Rubble through. There is also a hole about mid-height for teams to be able to pass Rubble through. See *4.4 Arena Layout* for field element locations.



4.3 GAME PIECES

4.3.1 Gems

The Gems are painted wooden blocks that are approximately 1.5 inch cubed. The official On The Edge game piece was made from cutting 2 in. x 2 in. x 8 ft. Furring Strip Board from Home Depot. A link to the material used for the official game piece is below for reference.

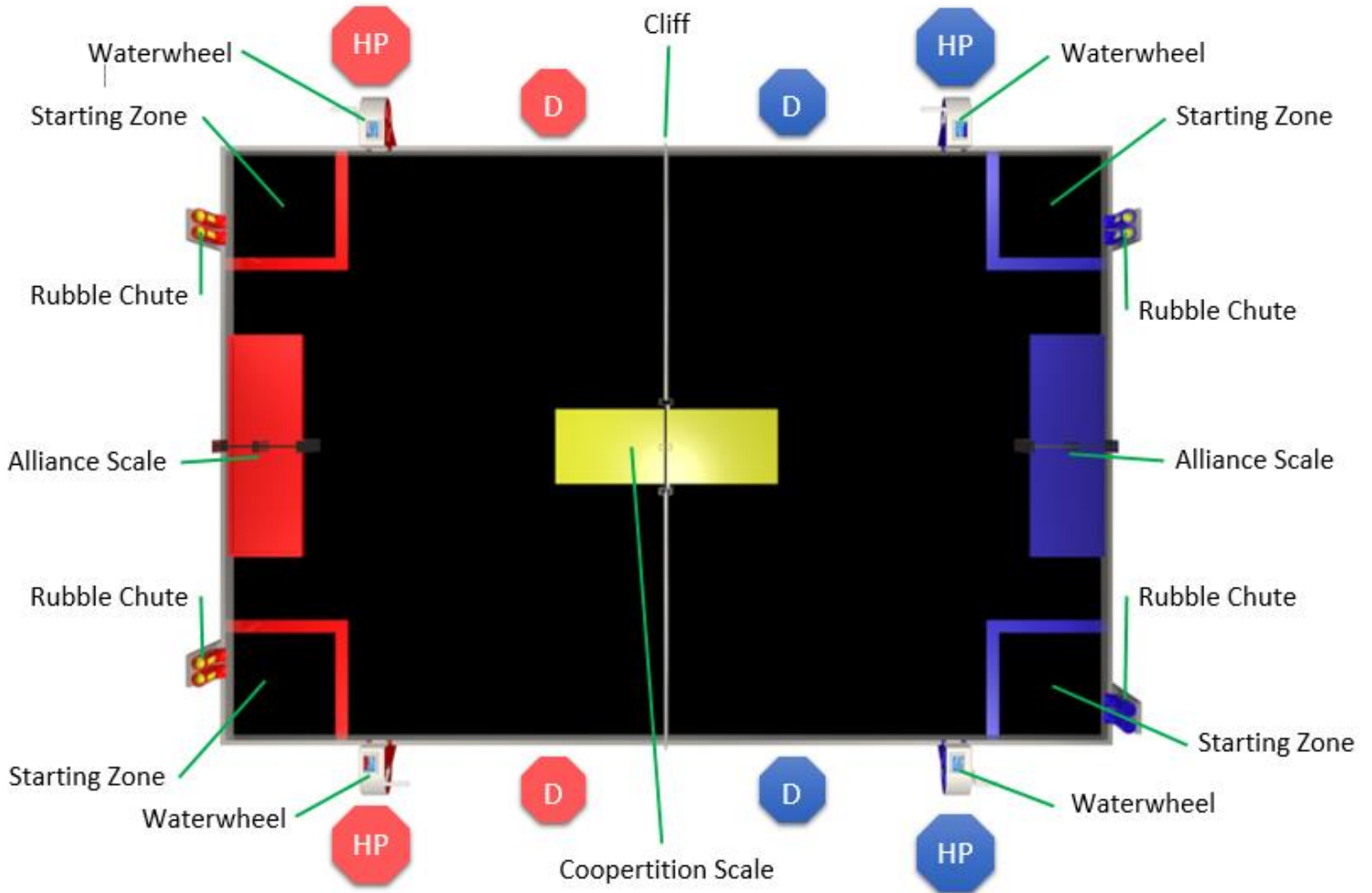
<http://www.homedepot.com/p/2-in-x-2-in-x-8-ft-Furring-Strip-Board-165360/202076422>

4.3.2 Rubble

The Rubble is a yellow plastic air flow practice golf ball that is approximately 41mm or 1.61" in diameter. A link to the official game piece is below.

https://www.amazon.com/Golf-Yellow-Balls-A99-36pcs/dp/B01B5UYI8I/ref=sr_1_1?srs=3016054011&ie=UTF8&qid=1505050550&sr=8-1&keywords=airflow

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4.4 ARENA LAYOUT