The Game

VEX IQ Robotics Competition Full Volume is played on a 6’ x 8’ rectangular field configured as seen above. Two robots compete in the Teamwork Challenge as an alliance in 60 second long teamwork matches, working collaboratively to score points.

Teams also compete in the Robot Skills Challenge where one robot takes the field to score as many points as possible. These matches consist of Driving Skills Matches, which are entirely driver controlled, and Autonomous Coding, where robots are preprogrammed to navigate themselves with limited human interaction.

The Details

The scoring objects in VEX IQ Robotics Competition Full Volume are various sized Blocks. There are a total of 73 Blocks on the field. 42 Blocks begin on the field in predetermined locations. The remaining 31 Blocks begin in the Supply Zone, where they will be randomly placed before each Match. Red Blocks begin on top of Starting Pegs.

The object of the game is to score as many points as possible with your alliance partner by scoring Blocks in Goals. Based on the contents of the Goal at the end of the Match, Alliances can also receive a Uniform Bonus and / or Height Bonus.

At the end of the Match, Robots can attempt to Park in the Supply Zone for additional points.
## Scoring

<table>
<thead>
<tr>
<th>Category</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each Block Scored in a Goal</td>
<td>1 Point</td>
</tr>
<tr>
<td>Each Uniform Goal</td>
<td>10 Points</td>
</tr>
<tr>
<td>Height Bonus</td>
<td>10 Points per Fill Level</td>
</tr>
<tr>
<td>Cleared Supply Zone</td>
<td>20 Points</td>
</tr>
<tr>
<td>Each Red Block Removed from Starting Peg</td>
<td>5 Points</td>
</tr>
<tr>
<td>Each Partially Parked Robot</td>
<td>5 Points</td>
</tr>
<tr>
<td>Each Fully Parked Robot</td>
<td>10 Points</td>
</tr>
<tr>
<td>Double Parked Bonus</td>
<td>10 Points</td>
</tr>
</tbody>
</table>

The Robotics Education & Competition Foundation sparks interest in science, technology, engineering and math (STEM) by engaging students in hands-on, sustainable, and affordable curriculum-based robotics programs.

## Online Game Resources

### Students

<table>
<thead>
<tr>
<th>Game Overview</th>
<th><a href="http://viqrc.recf.org">viqrc.recf.org</a></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REC Library &amp; VEX Library</strong></td>
<td>Robot builds, coding, competition, and more (students.vex.com)</td>
</tr>
<tr>
<td>VEX Forum</td>
<td>Chat and collaborate with the VEX Community (vexforum.com)</td>
</tr>
<tr>
<td>VEX via</td>
<td>Follow the progress and results of the VEX competition season with match lists, match results, and more. Download from Google Play or the iOS App Store.</td>
</tr>
</tbody>
</table>

### Coaches

<table>
<thead>
<tr>
<th>REC Library</th>
<th>Learn more about being a mentor advocate for VRC teams (coaches.vex.com)</th>
</tr>
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<tbody>
<tr>
<td>VEX PD+</td>
<td>PD+ is an online, streaming learning platform designed to enable every educator to be successful teaching and integrating STEM with VEX (pd.vex.com)</td>
</tr>
<tr>
<td>VEX Educators Conference</td>
<td>Learn from the VEX Experts and connect with other educators as you explore best practices in STEM education (conference.vex.com)</td>
</tr>
</tbody>
</table>

903 401 8088

support@recf.org

1519 Interstate -30 West
Greenville, Texas 75402