



# Welcome to FTC, Rookie Coaches and Mentors!

We want to help your first season be as easy as possible, so we have compiled all the resources we think you will need to have a rockstar rookie season in our “Top FTC Rookie Challenges” chart. If you can’t find what you need, don’t hesitate to email [fccteams@usfirst.org](mailto:fccteams@usfirst.org) with your questions. This is a living document and may be updated based on new information available. For up-to-date info, please check our [Mentor Resources](#) page. Good luck this 2015-2016 season!

	Challenge	Resources Available
1	<b>The Coach/Mentor Role</b>	<ul style="list-style-type: none"> <li>• Get started with the <a href="#">FTC Resources Pack</a> (download)</li> <li>• <a href="#">Mentor Manual</a></li> <li>• <a href="#">Quick Start Guide for Coaches and Mentors</a> (YouTube playlist)</li> <li>• <a href="#">FTC Robotics for Coaches and Mentors Course</a> - contains language that refers to outdated FTC Technology, but may still provide helpful tips for the season.</li> </ul>
2	<b>Understanding FTC</b>	<ul style="list-style-type: none"> <li>• <a href="#">FIRST Tech Challenge website</a></li> <li>• <a href="#">Game Manual Part I</a> (PDF)</li> <li>• <a href="#">Game Manual Part II</a> – (PDF)</li> <li>• Join the FTC Forum and ask your questions: <a href="http://ftcforum.usfirst.org/forum.php">http://ftcforum.usfirst.org/forum.php</a></li> </ul>
3	<b>Funding Your Team</b>	<ul style="list-style-type: none"> <li>• <a href="#">2015-2016 FTC Sample Team Budget</a> (PDF)</li> <li>• <a href="#">FTC Grants webpage</a></li> <li>• <a href="#">FIRST Fundraising Toolkit webpage</a></li> <li>• <a href="#">FTC Fundraising Guide</a> (PDF)</li> <li>• <a href="#">E-Watt Fundraiser webpage</a></li> <li>• <a href="#">Fundraising HoA</a> (YouTube video)</li> </ul>
4	<b>Ordering the Competition Set</b>	<ul style="list-style-type: none"> <li>• You must have 2 screened coaches in order to access the FTC Storefront in the <a href="#">Team Information and Matching System</a> (TIMS). Within the Storefront, you will be able to pay the registration fee as well as select and pay for your competition set.</li> <li>• <a href="#">US Team Ordering Instructions</a> (PDF) or <a href="#">Storefront Walkthrough Video</a></li> </ul>
5	<b>Preparing Your Team</b>	<ul style="list-style-type: none"> <li>• <a href="#">Register Team members (STIMS)</a> and have parents give consent. Check out our <a href="#">Video Tutorial</a> that you can share with parents.</li> <li>• Teambuilding tips: <a href="#">Building Teams that Build Robots</a> (PPT)</li> <li>• <a href="#">It's All FIRST To Me: Transitioning from FLL to FTC</a> (YouTube playlist)</li> <li>• <a href="#">Gear Up with FTC: Virtual Summer Conference</a></li> <li>• <a href="#">Ask an Expert</a> recorded trainings webpage</li> <li>• <a href="#">Build/Training Resources - Engineering Notebook</a></li> </ul>
6	<b>Designing the Robot and parts</b>	<ul style="list-style-type: none"> <li>• <a href="#">FTC Kit of Parts and Field CAD Drawings webpage</a> – 2015-2016 Versions <i>Coming Soon</i></li> <li>• Free CAD software: <a href="#">PTC for FIRST Teams webpage</a></li> </ul>
7	<b>Building the Robot</b>	<ul style="list-style-type: none"> <li>• <a href="#">New Components Overview – Dive into the New Tech</a> (YouTube video)</li> <li>• Start with a Basic FTC Build Guide (robot design, build, and programming step-by-step instructions): either <a href="#">TETRIX</a> (PDF) or <a href="#">MATRIX</a> (PDF)</li> </ul>
8	<b>Programming the Robot</b>	<ul style="list-style-type: none"> <li>• Teams will use Android Studio (Java) or the App Inventor to program the new robot platform. A good place for teams to start is the <a href="#">FTC Technology forum</a>.</li> <li>• Information about the <a href="#">FTC New Android-Based Technology</a></li> </ul>

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9	<b>Competition</b>	<ul style="list-style-type: none"><li>• Sign up for Events/Competition(s) in your area: <a href="#">Events webpage</a></li><li>• Learn about the <a href="#">FTC Awards</a> and <a href="#">prepare for Judging</a> (YouTube video)</li><li>• <a href="#">Getting Ready for Competition webpage</a></li></ul>
10	<b>Alumni and Scholarships</b>	<ul style="list-style-type: none"><li>• <i>FIRST</i> Tech Challenge Participants/Alumni are eligible to apply for over \$16M in <a href="#">Scholarship Opportunities</a> made available by over 150 Provider colleges/universities</li><li>• <i>FIRST</i> Tech Challenge Alumni are able to take advantage of internship opportunities with sponsor/supporter organizations through the <a href="#">Internship Portal</a></li><li>• <a href="#">FIRST Tech Challenge Alumni</a> can join our robust network of alumni from all <i>FIRST</i> Programs on LinkedIn</li></ul>
11	<b>Stay Connected</b>	     