

BHS FTC Camp Resource Links useful for one day workshops

FTC 7043 Golden Gears would like to thank you for your interest in our resources for running FTC Camps and workshops.

We are happy to share these with you and all teams, but we ask that you do not share these resources with other teams directly.

Instead, we ask that you refer them to the same form you used to gain access to these documents and videos

<https://tinyurl.com/y65kqxyn>

So we can keep track of how many people are using them, and keep everyone updated with the latest version.

- [A copy of the 2018 presentation](#)
On YouTube:
<https://youtu.be/7Y7EWnKNrkg>
- A [comprehensive guide to how we ran our camp](#)
(<https://drive.google.com/file/d/1u04gXUKi5BTT9xIVjOXN7z4sBQujg1VT/view?usp=sharing>)
- Links to programming resources and code
Java programming for FTC:
Presentation: https://1drv.ms/p/s!AqWO87_LnpsAgSTNmcGaPeB3tOKY
Examples (with and without comments) <https://github.com/Nolan1324/FTC-Camp>
Blocks programming:
<https://www.youtube.com/playlist?list=PLeBXIAvZfqcX2FrouvNuYynDT8A1XYyZ7>
<https://www.youtube.com/playlist?list=PLeBXIAvZfqcXM4DM9zZLTODVNn4zfcEOt>
- The materials to run your choice of two different FTC-style robot games that are scaled for a summer camp if you want to hold a non season competition robotics scrimmage:

2016 Game for K9 robots
<https://drive.google.com/open?id=19L2pGMVRMMpOuBe5DBAps6CECBp5BErN>
[Game Reveal animation: https://drive.google.com/open?id=0B4PNb1GphrTodUJIZIUtVk9aTWM](https://drive.google.com/open?id=0B4PNb1GphrTodUJIZIUtVk9aTWM)

[2017 Game for pushbots](#)
<https://drive.google.com/open?id=1qZ6wU9XbRGaWTSJgVttGND9-52oXSk8MYet144W9SfE>
[2017 Game reveal animation: https://drive.google.com/open?id=0B9InhcBujtQeOVcxSURWOGhSTkU](https://drive.google.com/open?id=0B9InhcBujtQeOVcxSURWOGhSTkU)
- Team building activities, adapted for inside vs outside, active vs calm, preparation needed vs on the fly, etc.
[Master list of activities:](#)
https://drive.google.com/open?id=121UIgjP8zTL_MJ3jsTDi4dgAMAmuUD4RGTTKY0CpnGI
[Team Building Index](#), so you can pick the right activity for your situation:
https://drive.google.com/open?id=1TN9Ckr_50KU3nePb-5kkIVy7jwsubue6Fh00MWnsDQ
Logic Puzzle Team Building Activity
[Puzzle Sheet:](#)
<https://drive.google.com/open?id=1GmS2s7L2JHfmdcuRVtRE6xEec2rwPzIBDmwaa67Nhzy>
[Puzzle Video:](#) <https://drive.google.com/open?id=0B9InhcBujtQeYmRkVE1vdmk3OEK>
[Puzzle Video Answer:](#) <https://drive.google.com/open?id=0B9InhcBujtQeRFgtaldnalpHV0U>

- Presentation materials to use to solicit sponsorship and grants for parts and tools for your camp/workshop
[Google Slide presentation](https://drive.google.com/open?id=1rEMMdSCBBgMJQmqixMozKa1hKMJZjMUXuIOVyikh22o):
<https://drive.google.com/open?id=1rEMMdSCBBgMJQmqixMozKa1hKMJZjMUXuIOVyikh22o>
[Grant text copy](https://docs.google.com/document/d/1rs3G3hQR6-FyyFSamjfckXhR5N6pJ8PjKTrAF8v9XUg/edit?usp=sharing):
<https://docs.google.com/document/d/1rs3G3hQR6-FyyFSamjfckXhR5N6pJ8PjKTrAF8v9XUg/edit?usp=sharing>
[What it really costs to run camp](https://docs.google.com/document/d/1dyZlknLvH_rScWmD-SjUUQFTH9SLdsM-V_bOoJ7VTIY/edit?usp=sharing):
https://docs.google.com/document/d/1dyZlknLvH_rScWmD-SjUUQFTH9SLdsM-V_bOoJ7VTIY/edit?usp=sharing
[Tools needed](https://drive.google.com/open?id=1FYzEFDcj7xTT-E7-XUgJolVh6MN05aYpCdn73pr4SZ0): <https://drive.google.com/open?id=1FYzEFDcj7xTT-E7-XUgJolVh6MN05aYpCdn73pr4SZ0>
- Our camp presentation files:
 - 15 minute beginner presentations

Session	Presenter	Links to presentation deck, notes, handouts, and activities
To start things off...	youtube video	https://www.youtube.com/watch?v=dDKP0JbUob0&index=9&list=LLT2wHqje4Ey_4LRyfbSLQvA
FIRST FTC vs FLL	Steven	https://docs.google.com/presentation/d/1FANijP1cS6NuNRE3S4XMlyuvkT9C1JIVRt6r7xvb69E/edit?usp=sharing
Engineering Notebook	Rose	https://drive.google.com/open?id=1FpkB6rFFmXZuSCImkKQVO-YSUyFHmQDVZpg4kCbIF1Y Sample google doc you can copy and use for your team: https://drive.google.com/open?id=116p8xugHvOihZar1OEYgFomdiBrvnJxaxGBsGUtqHOE An actual Camp Notebook compiled at camp with materials from campers during the week.
Programming	Nolan	https://1drv.ms/p/s!AqWO87_LnpsAgSTNmcGaPeB3tOKY In addition, Nolan and Steven gave small group instruction on how Android Studio works, how basic commands and formulas are constructed, and how they can upload their programs to Git Hub for backup and to share with their fellow BHS FTC teams.
Shop and Competition Safety	Noah	https://drive.google.com/open?id=0B4PNb1GphrToZllwVU5rT0xnNjA
Hand tools and hand tool safety	Don	Don does a very comprehensive hands-on presentation of all major hand tools at camp that can't possibly be captured electronically. However, we do have a list of the most common hand tools that are most used for FTC: https://drive.google.com/open?id=0B4PNb1GphrToQzQ1ZE9BY0Y5RVE
Name that tool game video	Andrew	https://drive.google.com/open?id=0B4PNb1GphrToCuxjWmtSU3E5dVk
Strategy	Michael	https://docs.google.com/presentation/d/137Ap0Mxie_1xLSAwQIPK-sTZV1R9ap3O0zT5FmXnAcQ/edit?usp=sharing
Build Components (Tetrix and custom parts)	Michael	https://docs.google.com/presentation/d/1--5XlotXnT4dy1sBNHMYaMKcZ1nm_eNjak3EvBSL_Go/edit?usp=sharing
Electronic Components	Nolan	This was a hands-on workshop, but there is another similar useful guide here .
Actual Camp Robot Game presentation (Rookie Rush)	Steven	https://docs.google.com/presentation/d/1XjdmgtgfejHFItABsLZJYXaXPOR1BNXEXpqqNLhwBAi0/edit?usp=sharing
Actual Camp Robot Game reveal video	Andrew	https://drive.google.com/open?id=0B4PNb1GphrToanNWSE1sUS1JSVE
Rookie Rush Game Manual	Andrew	https://drive.google.com/open?id=1qZ6wU9XbRGaWTSJgVtGND9-52oXSk8MYet144W9SfE
Phones	Nolan	https://docs.google.com/document/d/1FCAaiwG-tq10PeKJJE02ME05gfNSNmeDN3PTORKL38/edit?usp=sharing
CAD	Charlie	https://docs.google.com/a/polito.co/presentation/d/1qivjt9xTiEsE7MM9AQIgvSAhIGqrVQoNEsW54GdsQlc/edit?usp=sharing
Judging Prep	Heather	https://docs.google.com/presentation/d/1M_HNZ_6AXViMDhwXLyDCCzq4RmAypcl_3xfMSSMhj6E/edit?usp=sharing
How Awards and Advancing Works	Aidan	https://docs.google.com/a/bloomfield.org/presentation/d/16XblMVvQGy4vXeagLiEvYclMjMxJ2D4-jMbZUsTZb4M/edit?usp=sharing
Marketing, Fundraising, and Sponsorship	Heather	https://docs.google.com/presentation/d/1uY6FxAyU5FnYa0jtiXz28pUclztva_tg2dTDliz7-ZM/edit?usp=sharing
Outreach	youtube video	https://www.youtube.com/watch?v=FaAd167wv40

Link to the folder of all these presentations updated for 2018:

<https://drive.google.com/open?id=10nctCPiIMBnUk8nOXB-5FM9inABbrVJy>

Expanded, more in-depth presentations from our district's 2017 FIRST® FTC Kickoff hosted by the FRC 2834 Bionic Blackhawks:

These are presentations put into fast video format with no sound.

You will need to pause at each slide to present them.

They are not available in presentation file or PDF format.

[YouTube Playlist link:](#)

https://www.youtube.com/watch?v=Q2_waVVlrAA&list=PLW_DzSvcquF7jaisVirjtWimUJvgqdr mR

[Java Programming:](https://youtu.be/Q2_waVVlrAA) https://youtu.be/Q2_waVVlrAA

[Engineering Notebook:](https://youtu.be/Ls4N3h7Tfus) <https://youtu.be/Ls4N3h7Tfus>

[Girls in STEM:](https://youtu.be/mmR2jSuXU70) <https://youtu.be/mmR2jSuXU70>

[Design and Build Manipulators:](https://youtu.be/dK0mUkPwFVE) <https://youtu.be/dK0mUkPwFVE>

[FTC Robot Basics:](https://youtu.be/EqUvzbFkBSw) <https://youtu.be/EqUvzbFkBSw>

[FTC Strategy:](https://youtu.be/EeYTK12x460) <https://youtu.be/EeYTK12x460>

[How Awards and Advancing Works:](https://youtu.be/v6NPk69sNsc) <https://youtu.be/v6NPk69sNsc>

[Using CAD:](https://youtu.be/4zKYIHJ3KSE) <https://youtu.be/4zKYIHJ3KSE>

[How Non-engineers Can Mentor FTC:](https://youtu.be/ArbrpNusxOw) <https://youtu.be/ArbrpNusxOw>

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