

Getting Motivated About Motivate

Tactical Tech Tomato Turtles 2021 Kickoff Breakout Session



Who Are We?

- All attend Eagan High School
- Participated in FLL for 2 years as a team (some had prior experience)
- 4th year in FTC
- Chose team name in FLL
- Motivate award winning team at 2021
 MN state tournament



What will we be going over?

- What is the motivate award?
- Why does motivate matter?
- Who can you involve in motivate opportunities?
- How do you plan and deliver motivate events?
- Where can you do motivate experiences?

What is the Motivate Award?

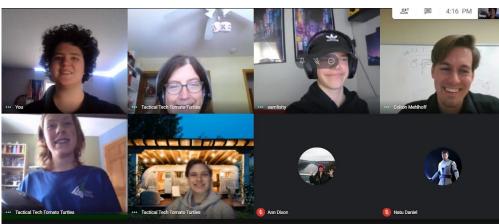
- Motivate Award
 - Outreach
 - What Outreach qualifies
- What a team that wins the award looks like
 - Teamwork
 - Bringing people to FIRST
- Requirements for the award
 - Portfolio
 - Everyone has individual contributions
 - Team organization plan
 - FIRST Ambassador

Why is the Motivate Award Important?

Motivate:

- It's very rewarding
- You directly help people learn
- You get involved with STEM
- It's exciting to get people excited
- It can create connections
- You learn from teaching





Who can you involve in motivate opportunities?

- Participate in others' events
 - Teams
 - Companies and nonprofits
- Design and pilot your own outreach
 - Community/Public
 - Members of groups
 - Mentoring teams
 - Connecting with professionals



Follow <u>everyone</u> on social media Talk to <u>everyone</u>



How Do You Plan and Deliver Motivate Events?

- Establish goals
- How you are going to accomplish those goals?
 - Build a curriculum
 - Build a presentation from that curriculum
 - Practice and prepare
- Have multiple leadership roles to divide and conquer
- Establish a thorough organization and sustainability plan for events
 - Team identity, team impact, funding, materials, and backup presenters
- Be an ambassador for FIRST
 - Talk about FIRST during every presentation

Outreach Goals

Туре	Goal	Achieved
Motivate	Motivate at least 50 students to get interested in STEM	
Connect	Meet with at least 5 experts in STEM fields that can improve our abilities in FTC	
Motivate	Meet with at least 5 other FTC teams to exchange ideas and learn learn from one another	





Strategy to Achieve Goals

Туре	Goal	Achieved
Motivate	Motivate at least 50 students to get interested in STEM	

To achieve this goal:

- Where is their interest?
- Where could we make an impact?
- Do we want something repeatable?



Strategy to Achieve Goals



4-Pronged Approach



Repeatable curricula for Girls Scout badges to generate interest in STEM and FIRST

Interaction events to demo our robot, talk about what we do, and generate interest in STEM and FIRST

Community service events

Mentoring FLL and FTC teams

Girl Scouts Outreach

What did we do

How did we divide up the work and presentations

How did we advertise

How were we an ambassador for FIRST





Team 14556



Who We Are









Robotics competitions

There are many forms of competitive robotics, but here are some we've had experience with...

FLL championships

FTC competition Videohttps://www.youtube.com/watch?v =z5J oHmm52w8

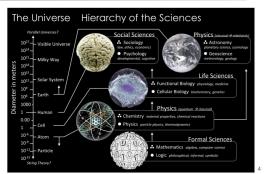
FLL championships are graded on on core values, robot runs, programing, design, and project FTC championship

FLL competition videohttps://www.youtube.com/watch?v =0L STanMK7A

FTC championships are more graded on Your robot performance, design, and outreach

Tell Us About Yourselves

- Names
- Fun experience in your troop
- Favorite type of science







Entertainment Technology: What is it?

- The process of improving a form of entertainment by creating something to work with it.
 - o Examples: Movies, theater lights, cameras, computers, CD's, ipod, DVD's, trampolines, and instruments, Lego's, and virtual books
 - What are some examples of entertainment technology that you see every day?
- Technological entertainment technology
 - Examples: CGI, immersive sound, holograms, 3D animation, Augmented reality, virtual reality, micro-LED's, claymation, video games, and cellular/wifi service
 - o Do you have any technologic forms of entertainment technology in your household?











Interaction Events

What did we do?

How did we find or schedule events?

How were we an ambassador for FIRST?

INTERACTING WITH OTHERS





Results

How did we keep track of results (screenshot of spreadsheet)

What were the results - better than expected? why?

Girl Scout Programming Badges 2/20/20 We helped a girl scout troop get their programming badges in our ongoing girl scout badge program. To prepare for girl scout programming robots and programming for good badges, Participants We successfully made a curriculum, and taught the girl scouts about coding, and Troop Number 57704 how it works in a fun and engaging way. Number Reached: We were able to get the badges done and everyone finished successfully. What to improve (What we learned): We finished late which is an issue we are continuing to work on fixing. 9hrs 15 min Event Location: 2.5 hrs Team Members attending: Total Hours



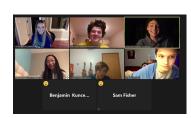
		Team #			Number	Connect(C)
Date	Event	Attend 6	Length		Reached	Motivate(M
	Tour of PaR at 3M		2	13		C, M
	Set up for FRC Zero Tournament	2	5		participatin	C, M
	Assist with EHS FRC Zero Tournament	- 1	3	3		C, M
2/20/20	Girl Scout Event: Programming Badges	- 6	2.5	24.25	12	C, M
8/24/20	Connecting with Joe Norby - RoboMechanics Lab at Carnegie Mellon University	4	1	7	7	С
9/8-9-9	High Tech Kids Kickoff Breakout Meertings 9/8 & 9/9	- 6	5	32.5	teams + as	C, M
9/12/20	High Tech Kids Season Reveal Event	- 6	3.15	19.9	teams + as	C, M
9/18/20	Thomson Reuters Presentation - Unconference		1	15	15+ profes	C, M
9/22/20	Robot Activity for Girl Scout Recruitment		2	5	4 + adults	M
10/8/20	Open Door Pantry Food Drive #1		- 1	5	unknown	C.M
10/10/20	Connecting with Veronica from Korn Ferry	5	1	- 11	1 + adults	C, M
10/11/20	Connecting with Lockheed Martin	3	1	4	8 + adults	C, M
10/18/20	Connecting with High Tech Kids Cohort	6	1.5	7	12 + adults	C, M
10/22/20	Girls are Powerful - COVID Panelist	- 1	2	6	40+	C, M
10/30/20	Target - Prepare to Launch event - Be Bold	- 1	2	2	those wato	С
11/1/20	Connecting With High Tech Kids Cohort	- 6	1	7	participatin	M
11/8/20	Mentoring FOTS presentation (general)	6	2	20	4 + adults	M
11/7/20	Designing robots for Troops 57713 and 57708	6	2.2	32	11 + adults	C, M
11/8/20	Showcasing robots for Troops 57713 and 57708	5	2	17	5* adults	C, M
11/13/20	Target - Prepare to Launch Event - Building Meaningful Relationships	- 1	2	2	30 + adults	С
11/14/20	Presenting Ideation at MN Codes Summit	- 1	1.5	6	90 + recon	C, M
11/15/20	Connecting with High Tech Kids Cohort	6	1	7	50 + team	C. M
11/20/20	Mentoring FOTS: Programming Presentation	4	2	10	4 + coache	M
11/21/20	Girl Scout programming badge presentation	- 6	2	13	6 + adults	C. M
	Girl Scout designing and showcasing badge event	6	2	18	7 + adults	C. M
	Connecting with High Tech Kids Cohort	- 5	2	6	10+	С
11/24/20	Connecting with professionals on portfolio, Alina Health, Securian Financial, & Thomson Reuters	5	1	12	5 + adults	С
11/28/20	Robot Design Review with Green Girls	6	2	15.5	10	С
11/29/20	Girl Scout designing and showcasing badge event	. 6	2	19.5	7 + adults	C, M
12/12/20	Crushbots FTC Eagan Connect Event	- 4	1.25	5	8	C, M
12/12/20	Open Door Pantry Food Drive #2	4	- 1	6.5	unknown	M
12/13/20	Girl Scout Programming Robots Badge event	8	2.5	14.5	7 + adults	C, M
12/14/20	3M Engineer Design Review	- 6	2	17.7	8 adults+te	C, M
12/20/20	Entertainment Technology Girl Scout Badge	6	2.5	24.4	4 + adults	C, M
12/29/20	CrushBots Eagan FTC Connect 2	- 4	- 1	4.5	6	С
1/9/21	Designing and Showcasing Girl Scout Badge	6	2.75	17.5	10+ adults	C,M
1/10/21	Proramming Robots Girl Scout Badge	6	2.5	15	6 + adults	M
	High Tech Kids Cohort Meeting	- 4	1	4	10 +adults	С
	Skills Development Plan Training from Korn Ferry	6	1.5	8.5	7	С
1/15/21	FTC Fun Night with Crushbots, Designosaurs	3	1.5	4	5	С
	Total @ first qualifying tournament	179		469.25		

Where can you do motivate experiences?

- In Person
 - Tours, schools, charities, libraries, Scout's houses, etc.
 - More ways to make outreach engaging and hands-on
 - Include fun activities such as games or team exercises



- Presentations, reviews, meetings with those from around the world
 - Good for certain activities
 - Easier to set up and run
 - Can include people who wouldn't be able to make it in person
- Online with materials delivered
 - Engaging physical activities with pre-delivered materials
 - Don't assume that people already have the materials
 - Problems could occur with mailing and delivery



DON'T FORGET!

- Make plans for sustainability, team identity, team impact, funding, spreading FIRST, as well as helping the team and other teams thrive.
- Document what you do as you progress through the season
- Ask others what you can improve
- Ask anyone if they would like to attend your Motivate events
- Have fun and encourage others to have fun too!

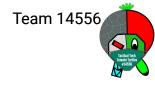
Thank You!

If you'd like a copy of these slides or to see our portfolio or notebook, please contact us!

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Questions?



