RePLAY GETTING STARTED: Innovation Project

Tips for hosting a Virtual Team Meeting:

- There are many tools such as Zoom and Google Hangouts. Some older teams also use Slack or Discord.
- Make sure your students learn how to logon and how to share their screen
- A webcam may help them feel more connected to the team
- Headphones for each student will help them reduce external noise
- Be sure to go through online safety tips for kids
- Using Google Drive or similar to keep all your team's materials together will be helpful.



Teaser 1: Theme Analysis https://youtu.be/2llxVVR7 No Look at the three teaser videos Teaser 2: Read all the text with them https://youtu.be/3MmcU6a2zAo What do you think the topic is Teaser 3: this year? https://youtu.be/Azlq4bWumxI Evaluate the Websites challenge using Refer to the Innovation Project What websites or online the released Lessons here: resources can you find related to http://flltutorials.com/Project.html videos, text and the theme? images Worksheets: http://flltutorials.com/Worksheets.html Virtual Fieldtrip and Expert Interview Where can you visit? Are there experts you can reach out to who may have time right now?

Design a Survey

If applicable, design a survey to gather information





RePLAY GETTING STARTED: Robot Game









Robot Prototyping What design of robot would be useful? Wide or narrow?

What sensors would help with navigation? Where should the sensors go?

Evaluate theLchallenge usingmothe releasednevideos/imagesd

Look at the mat and mission models. Guess what you might need to do with them. Can you design some mechanisms to Push? Pull? Lift? Deliver a hoop?

Programming Skills (EV3 or SPIKE Prime)

Which sensors should you learn to use?

What techniques/algorithms do you want learn? Line following? Aligning? Gyro move straight? Proportional control?

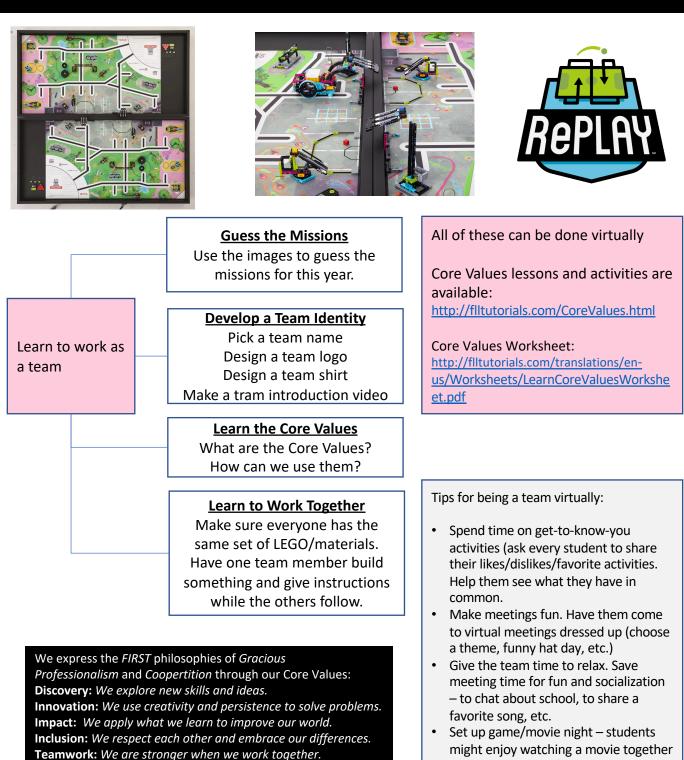
- If you don't have access to your robot,
 design one using Studio. You can
 construct both EV3 and SPIKE Prime
 robots with this tool.
 (<u>https://www.bricklink.com/v3/studio</u>
 /download.page)
- Send home a sanitized set of LEGO brick with each team member Build some of the FLLMiniBuilds (<u>http://flltutorials.com/RobotGame.ht</u> <u>ml</u>) or look up books by Yoshihito Isogawa
- Build just the mechanisms with the LEGO.
- If you don't have access to your robot, you can still download the software and learn to program
- If one team member/coach has a robot, email them your code files to test and watch them run the robot.
- You can also collaborate to code. For example, you can all be on a Zoom call together and give instructions to the one person with the robot
 - EV3: EV3Lessons.com
- SPIKE Prime: PrimeLessons.org





Created for FLLTutorials.com (FRC 8027) All RePLAY images publicly available. See LEGO Education Social Media

RePLAY GETTING STARTED: Core Values



Fun: We enjoy and celebrate what we do!

might enjoy watching a movie together or playing Minecraft together.





RePLAY GETTING STARTED: Guess the Missions

Work together as a team to guess what all the missions may be. Images are available on the Teaser video (<u>https://youtu.be/Azlq4bWumxl</u>), LEGO Education Facebook (@LEGOeducationofficial) and Instagram (@LEGOeducation). These are just a few examples of what was shared.













Created for FLLTutorials.com (FRC 8027) All RePLAY images publicly available. See LEGO Education Social Media

