



EXPLORE

Multimedia Connections



Multimedia Resources

Thank you for participating!

Below is a session-by-session list of Multimedia Connections for this season. These resources include links to websites, videos, building instructions, and other online tools related to the content of each session.

Some of the resources below are from third-party sites not developed or managed by *FIRST*[®] or LEGO[®] Education, but they're too great not to share!

Try sharing some or all the resources during team meetings, and/or encourage your team to explore them between sessions (with permission and supervision from a parent or guardian).

General Resources

LEGO Support	education.lego.com/en-us/support Phone: (800) 422-5346
Main Websites	firstlegoleague.org/ firstinspires.org/robotics/fll
Team Resources	firstinspires.org/resource-library/fll/explore/team-management-resources
General Support Questions	fllexplore@firstinspires.org
Equity, Diversity, & Inclusion	firstinspires.org/about/diversityinclusion
Youth Protection	firstinspires.org/resource-library/youth-protection-policy

Pre-Session Resources

Make sure you have a Bluetooth-enabled device with the WeDo 2.0 app or software installed and updated.

[LEGO Education Software download](#)

[WeDo 2.0 Support](#)



Coach WeDo 2.0

If you are new to using WeDo 2.0 or just need a refresh, it would be beneficial to take some time familiarizing yourself with the below links.

[Introduction](#)

[Toolbox](#)

[Getting Started with WeDo 2.0 Playlist](#)

Team WeDo 2.0

If the team is new to using WeDo 2.0, try using the WeDo 2.0 Set and app or software prior to Session 1.

[Getting Started Project: Glowing Snail](#)

FIRST® LEGO® League Explore

Watch our season launch and getting started videos

[PLAYMAKERS Explore Season Launch](#)

[Getting Started with FLL Explore](#)

Remote Guidance

[Remote Learning Resources](#)

[Season Guidance for COVID-19 Interruptions](#)

[LEGO Education Guidance on Managing Today's Classroom](#)

General Theme Resources for All Sessions

Additional STEM activities

We've reviewed the following content that will support the continuation of learning and skill development. Activities listed have been chosen carefully and represent an opportunity to build a variety of technical skills, career preparedness and holistic skills to prepare for life - ranging from high tech, to low tech, to no tech. <https://www.firstinspires.org/community/home-learning>



Coach Challenge Topic Resources

As a coach it can always be great to have a little background knowledge on the Challenge.

<https://www.childinthecity.org/>

[The importance of being physically active - Smartkids](#)

[Game Changers Inspirational Season Resources](#)

Session 1

- Our friends at the IET (the FIRST LEGO League Program Delivery Partner in the UK) give an overview of the 2020-2021 FIRST LEGO League Explore PLAYMAKERS season and materials. [Getting Started with FIRST LEGO League Explore](#) (3 minutes, 12 seconds)
- For a written description of the FIRST Core Values visit <https://www.firstinspires.org/robotics/fll/core-values>
- View the [LEGO® Education WeDo 2.0 video](#) (1 minute, 33 seconds) and [LEGO® Mini-Builds](#) video (1 minute, 31 seconds) to learn more about these topics.
- Download the [WeDo 2.0 Teacher Guide and Preparation Materials](#) from the LEGO Education website. For more WeDo 2.0 resources, visit the [LEGO Education WeDo 2.0 Support](#) webpage.
- For additional information on a healthy heart try <https://healthpoweredkids.org/lessons/your-happy-heart/> or watching Dr. Bincos [How your heart works](#)
- Examples of playgrounds and play explore the <https://kaboom.org/playeverywhere/gallery>

Sessions 2 and 5

- To familiarize yourself with the [Cooling Fan](#) build watch this short YouTube video.
- If your team would like to build this session's suggested WeDo 2.0 model offline, download the [Cooling Fan building instructions](#) (PDF).
- Think of new ways to get moving
https://pbskids.org/designsquad/parentseducators/resources/get_moving.html
<https://healthpoweredkids.org/lessons/be-active/>

Session 3 and 6

- To familiarize yourself with the [Moving Satellite](#) build watch this short YouTube video.

Further Research and Resources

- Play Spaces
<https://kaboom.org/play-everywhere/gallery>
- Equity
<https://kaboom.org/playspace-equity>
- <https://pbskids.org/designsquad/video/rock-climbing-kids-disabilities/>
- Active Lifestyles
<https://healthpoweredkids.org/power-chargers/>
- Ninja Obstacle Course
<https://pbskids.org/designsquad/video/how-use-fasteners/>

Session 4 and 7

- Download the [WeDo 2.0 Teacher Guide and Preparation Materials](#) from the LEGO Education website. For more WeDo 2.0 resources, visit the [LEGO Education WeDo 2.0 Support](#) webpage.
- If your team would like to build this session's suggested WeDo 2.0 model offline, download the [Spy Robot building instructions](#) (PDF).
- To familiarize yourself with the [Spy Robot](#) build watch this short YouTube video.
- For many kids, sports are not about winning, but simply a fun activity. Learn how to support your kids and help them get the most out of playing the game. <https://www.verywellfamily.com/unusual-sports-for-kids-1257482>
- No need to join a sports team! Encourage daily movement with these fun games and activities for kids. They promote exercise, cure boredom, and excite kids. <https://www.verywellfamily.com/active-play-4157315>

Session 8 and 9

Further Research and Resources

- Sports and games:
<https://www.unicefkidpower.org/fun-sports-activities-games-resources-kids/>
- Obstacle course:
<https://www.wavy.com/living-local/new-obstacle-course-opening-this-weekend-on-elizabeth-river-trail-in-norfolk/>
- Interactive community art:
https://nhpbs.pbslearningmedia.org/resource/media_arts_artist10/impulse/
- Play spaces:
<https://www.youtube.com/watch?v=U8Vi832pfgc&feature=share>
- Helping the elderly:
<https://goric.com/a-vision-for-elder-playgrounds/>
- Fitness Trail:
https://en.wikipedia.org/wiki/Fitness_trail

Session 10 and 11

- Consider downloading [LEGO Digital Designer](#) — free, 3D-modeling software (for Windows PC XP and higher and Mac OS X 10.10 and higher) that allows users to design and build 3D models using virtual LEGO pieces.
- Explore free, online tools such as [Photoshop Express Editor](#) (Flash required) or [Google Photos](#) to edit any photos you take for the team's *Show Me* poster.
- Download the [WeDo 2.0 Teacher Guide and Preparation Materials](#) from the LEGO Education website. For more WeDo 2.0 resources, visit the [LEGO Education WeDo 2.0 Support](#) webpage.
- Watch the [Sessions 10 and 11: The Show Me Poster](#) video (42 seconds) from *FIRST LEGO League Jr.* for an overview of Sessions 10 and 11. A [Spanish version](#) is also available.
- To see examples *FIRST LEGO League Explore* season posters, search [Google Images](#) or [Pinterest- FIRST LEGO League Explore Board](#)
- Try a free, collaborative whiteboard website such as [Padlet](#) if your team would like to design their poster online.

Session 12

- Share Getting Started with [FIRST LEGO League Explore - the Festival experience](#) video (1 minute, 36 seconds) with your team members to give them a glimpse of what happens at an Expo.
- Search for local *FIRST LEGO League Explore* events on the [Events and Teams in My Area](#) webpage.

Introduction Activities

Coach Says!

Make a copy of the Coach Says! Team Meeting Guide pages 25-26.

Cut out each Coding Block on the sheet.

[WeDo 2.0 Programming Blocks Sheet](#)

Let's Dance

Show the *FIRST* LEGO League's [Teamwork Makes the Dream Work](#) video (1 minute, 52 seconds). Have the students work together to create dance moves to the video.

Human Robot

Pick a starting and ending point in your meeting space. Split the team into pairs. Each pair should write the steps for you, the human robot, to get from the starting to ending point. Read each pair's instructions and act out the EXACT steps until you no longer can or until you reach the ending point.

<https://pbskids.org/catinthehat/games/corn-maze-craze>

Walk and See

Go on a walk around your school, building, or other area nearby.

Ask the team to point out all the different places where they can play and be active.

<https://pbskids.org/heroelementary/games/ajs-recycle-rescue>

<https://pbskids.org/catinthehat/games/invention-engine>

Extension Activity Ideas

- Check out the [FIRST LEGO League YouTube channel](#) for videos and inspiration.
- Students could try these activities using the WeDo 2.0 app in the program library. elect *Classroom Projects* > *lightbulb icon* > *program block icon*

Sessions 2 and 5

- Motor Power
- Increase Speed
- Stop Motor

Sessions 3 and 6

- Motor Direction and Motor Time
- Screen Joystick

Sessions 4 and 7

- Sound
- Detect Motion
- Loop

Career Connections:

- Visit the Learning Lab and search careers from A-Z
<https://nhpbs.pbslearningmedia.org/collection/a-z-career-lab/>
- Landscape Architects can help in designing a play space
<https://www.playlsi.com/en/playground-planning-tools/resources/for-landscape-architects/>