



EXPLORE

Multimedia Resources

MASTERPIECESM



FIRST® LEGO® League Explore Multimedia Resources

Below is a session-by-session list of Multimedia Resources 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! You could share resources during sessions and/or encourage your students to explore them between sessions (with permission and supervision from a parent or guardian).

Go To Resources		
Email for General Support	FIRST LEGO League Explore: How It Works	Getting Started with FIRST LEGO League Explore video
FIRST LEGO League YouTube Channel	MASTERPIECE General Season Resources	Teamwork Makes the Dream Work FIRST LEGO League Music Video
General Resources		
LEGO Education Support	FIRST LEGO League (global)	FIRST LEGO League (US)
Impact of FIRST Programs	Buying Replacement Parts	FIRST LEGO League Support Videos
Coach and Mentor Resources		
FIRST Youth Protection	FIRST Mentor Network	FIRST Volunteer Resources
Educator Resources		
Skills Progression	Standards Alignments	Scope and Sequence Options
FIRST Certified Professional Development	FIRST Education Philosophy	
LEGO Education Resources		
Self-Guided Professional Development	LEGO Education Teacher Community	LEGO Education Additional Lesson Content for SPIKE Essential and WeDo 2.0
Equity, Diversity, and Inclusion Resources		
FIRST Mentoring and Coaching with FIRST videos	Inclusive Recruitment & Enrollment Strategies	Additional Training & Resources

MASTERPIECE Season Resources

[Season resources](#) page includes:

- Season Launch Resources
- Links to Season Videos
- Explore Overview
- Explore Welcome Letter
- Explore Introduction
- Explore Set Building Instructions
- Student Participation Certificates
- Individuals Session Slides
- MASTERPIECE Season video resources on [FIRST LEGO League YouTube Channel](#)
- [Season content](#) (logos, templates, graphics, posters, wallpapers)

Core Values Resources

Book Resources	
The Squirrels who Squabbled by Rachel Bright	Fiction book about conflicts
A Little SPOT of Teamwork: A Story About Collaboration and Leadership by Diane Alber	Fiction book about teamwork
Brave Irene by William Steig	Fiction book about perseverance
The Invisible Boy by Patrice Barton	Fiction book about inclusion
My Mouth is a Volcano! by Julia Cook	Fiction book about taking turns
The Little Red Pen by Janet Stevens	Fiction book about cooperation
Going Places by Paul and Peter Reynolds	Fiction book about creativity
Web Resources	
FIRST at Home activities	A variety of free resources, activities and links
FIRST Core Values through Social, Emotional Learning Activities	Part of <i>FIRST</i> at Home
33+ Awesome Team-Building Games and Activities for Kids	We Are Teachers
Team Building for Kids: A Complete Guide	Venture Team Building

Robotics Resources

Team Management and Goal Setting Resources	
How to Do Goal Setting With Your Students This School Year	Article from Weareteachers.com about setting goals with your students
How To Set Goals (4 Easy Steps) (4:40)	Video from Rocket Kids about ways to set goals
LearnStorm Growth Mindset: How to write a SMART goal (2:52)	Video from Khan Academy about writing SMART goals
Keeping Organized	Tips from Droid Robotics on staying organized
The 9 Best Online Tools For Student Collaboration	Article from Weareteachers.com with great tools for student collaboration digitally
Robot Design Resources	
Technical Resources	Links to technical resources for Explore
Yoshihito Isogawa's YouTube Channel	SPIKE Essential building ideas from the author
Engineering Design Process, Design, and Computational Thinking	
What is Computational Thinking?	Article by Teach Your Kids Code about coding
The Engineering Process: Crash Course Kids #12.2 (5:16)	Video by Crash Course Kids to explain the engineering design process to your students
Engineering Design Process Curriculum	Various lessons from Teach Engineering.org
Design Thinking Resources for Educators	Article by Innovation Training for educators to understand design thinking
Design Thinking: A Problem Solving Framework (5:22)	Video from Edutopia providing examples of design thinking for educators

LEGO Education WeDo 2.0 Resources

- [Getting Started with WeDo 2.0](#)
- [Download WeDo 2.0 Software and View System Requirements](#)
- [WeDo 2.0 Product Support](#)
- [WeDo 2.0 Lessons](#)

LEGO Education SPIKE Essential Resources

- [Software Download](#)
- [FIRST LEGO League Explore Unit](#)
- [Getting Started with SPIKE Essential](#)
- [SPIKE Essential Unit Plans](#)
- [Product Support Resources](#)

MASTERPIECE Resources

General STEAM Resources

Video Resources	
CURIOUS KIDS STEAM (Science-Technology-Engineering-Art-Math) (28:47)	Video by PBS sharing how all subjects are intertwined to solve a problem
How are movies made? The movie making process explained (6:07)	Video by Movie University explaining the process of making movies
Web Resources	
PBS Learning Media for Students	Search for “art”, “music”, “theater” and filter for your age, resource, length, and language
Movie University	YouTube page with various videos about movies
What Great Movies Look Like Without Special Effects	Clips of popular movies without their special effects
Book Resources	
Questioneers Series by Andrea Beaty	Great series of books on STEAM topics

MASTERPIECE Session Resources

Session 1: Hobbies and Interests

Video Resources	
200+ Hobby Ideas (Hobbies to Try from A to Z) (14:16)	Video covering over 200 examples of hobbies
Hobbies & Interests for Kids (2:55)	Short video with examples of hobbies
Web Resources	
The Science Behind How Hobbies Can Improve Your Brain Health!	Article from Mautushi Paul on how hobbies improve brain health
Book Resources	
Bobby, Get a Hobby by Andrew G. Rosen	Picture book about a boy trying new hobbies

Session 2: Behind the Scences

Video Resources	
Working Backstage at Aladdin The Musical (4:01)	Production manager interview of Aladdin about what all happens to make the show a success
Kids Show & Tell Their Hidden Talents (6:22)	Video by HiHo Kids of students sharing their hidden talents
Web Resources	
Careers in Art	A great source for learning about arts careers
It's Not Just a Stage	An article covering details and parts of a stage
Book Resources	
Bats in the Band by Brian Lies	Book about bats using empty stage for concert

Session 3: Sound All Around

Video Resources	
What is Music? Young Explorers (2:38)	Video on music types and how people make it
Elements of a Concert (5:46)	Explains the basics of one type of concert
Career Connections Sound Engineer (5:38)	The responsibilities of a sound engineer and how to become one
Web Resources	
Concert Facts for Kids	Kiddle Kids Encyclopedia Facts

Session 4: Theater Technology

Video Resources	
Annie on Broadway: What Do Stage Managers Do? (3:29)	The responsibilities of a stage manager are discussed
What is Theater? Young Explorers (2:14)	Video on the parts of theater – cast and crew
Web Resources	
Theatre Facts for Kids	Fun facts related to theater history from Kiddle
Shakespeare's Theater	History of theater from Shakespeare's time

Book Resources

The School Play (Little Critter) by Mercer Mayer	A short picture book about performing in a school play
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Session 5: Museum Exhibit

Video Resources

Different Kinds of Museums (15:00)	Video talking about the different museum types
Museum Inside Out: The Exhibition Designer (2:04)	Video of a museum exhibit designer talking about what he has to plan for with a new exhibit

Web Resources

8 Top Technology Trends for Museums	Article on technology helping to change the way the audience interacts with museum exhibits
Virtual Children’s Museum Visits	A list of 10 children’s virtual museums
Virtual Art & History Museum Tours	A list of 20 art and history virtual museums

Book Resources

Simon at the Art Museum by Christina Soontornvat	Picture book about a boys first visit to an art museum and how his perspective changed
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Session 6: Visual Effects

Video Resources

Camera Movement (and why it matters!) (2:44)	Video on the 7 basic camera movements and why they are important
How Does a Green-Screen Work? (1:56)	Short video explaining how a green-screen works
The Making of Star Wars — Pioneering Special Effects, VFX, and Sound Design (13:03)	Video explaining how the making of Star Wars was the first of its kind in special/visual effects and sound design

Web Resources

VFX – Everything You Need To Know	Resources on visual effects and when to use
Working in the Visual Effects Industry	Article and series of short videos on the skills needed to work in visual effects and animation

Session 7: Setting the Stage

Video Resources	
Working Backstage at Aladdin The Musical (4:01)	Production manager interview of Aladdin about what all happens to make the show a success
Web Resources	
Setting the Stage (average video length is 5:00)	A 12 part video series highlighting STEAM-based professionals who create the live performances
Book Resources	
Pete the Cat Talent Show Trouble by Kimberly and James Dean	Children's book about Pete the Cat performing in the town's local talent show

Sessions 8 & 9: Team Model

Video Resources	
Recap of the 2019 FIRST LEGO League World Festival in Houston (1:10)	*Have your students watch for examples of team models in the video
Science of Innovation: What Is Innovation? (6:56)	Video from NBC News Learn about innovation and the process for improving
Designing and Building the LEGO Model & Creating the Show-Me-Poster (30:24)	Coach webinar from <i>FIRST</i> in Texas
Web Resources	
There's Got to be a Better Way – Developing a Product	Resources from Fun Kids – UK children's Radio Station on how to develop a product and share it

Sessions 10 & 11: Team Poster

Video Resources	
Sessions 10 & 11 - Poster (0:42)	Video of <i>FIRST</i> LEGO League Explore Poster
Recap of the 2019 World Festival (1:10)	*Watch for example team posters in the video
Web Resources	
6 tips to create awesome science posters	Fizzics Education
Team Poster - Explore	Tips from the IET in the United Kingdom

Session 12: Prepare for Event

Video Resources	
How to Prepare for your Festival (1:39)	Video by IET on the basics of hosting an event
Celebrate - GoNoodle Dance Song (2:34)	Video & Song to play for students to dance along
Presentation Skills, Part 1 (1:44) Presentation Skills, Part 2 (1:31)	Videos from Green Ivy Schools to teach students how to give a great presentation
Web Resources	
Customizable Student Certificates	Printable certificates to award to each student
Event Introduction	Overview of what the event will look like
Reviewing Sheet	Reviewing questions, rubric, and awards

Career Resources

General Career Resources	
Visit the Learning Lab and search careers	PBS Learning Media
Amazon Future Engineer Class Chat	Amazon
Career Exploration Lesson Plans	Nebraska Department of Education
Career Resources for Elementary Grades	Workforce Solutions
Career Exploration	Profiles from the US Bureau Labor & Statistics
Career Exploration Kahoot Course	Kahoot Courses for learning about careers
X-STEM All Access	YouTube Playlist with STEM interviews
MASTERPIECE Career Resources	
Music Career Resources	Learn about the various careers in music and the experience you need for each job
Music Career Resources and Tools	Learn about certain music careers
Working in Theater	Videos on jobs you can have working in theater

Film School & Careers in Film: How to Become a Filmmaker	Article covering the ways to work in the film industry including the schooling opportunities
MUSEUM CAREERS 101 Types of Museums (14:37)	Video giving an overview of the various careers in museums
Highest Paid Museum Careers Part 1 Museum Career Ideas (7:59)	Video discussing the skills and interests for those who want to work in museums

Additional Resources

Extension Activity Resources	
What is a Robot?	Lesson plan from PBS Learning Media
Wild-Inspired Robotic Arms	Activities from PBS Learning Media
Engineering for Good	Project-based Unit from PBS Learning Media
Books on Inventors	Inventive Kids
Invention Education Curricula	Links to invention lesson plans from Invent Ed
Drawing Designs in Detail	Hands-on activities from teachengineering.org

FIRST IN SHOW

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