



Multimedia Resources



UNEARTHEDTM



FIRST[®] LEGO[®] League Challenge

Multimedia Resources

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

This document contains links to third-party websites which may contain articles, images, text, graphics, video, applications, software, and other content belonging to or originating from the content creators. While we conduct an initial review of such websites, FIRST is not responsible for any third-party content accessed through this guide, including its accuracy, appropriateness, completeness, offensiveness, opinions, reliability, privacy policies, or other practices of these sites. If you visit any of the sites listed in this guide, or share this third-party content with others, you do so at your own risk. You should review the applicable terms and policies, including privacy and data gathering practices, of any website to which you navigate.

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).

UNEARTHED Season Resources

[Season resources](#) page includes:

- Season Launch Resources
- Links to Season Videos
- Season Overview
- Challenge Welcome Letter
- Challenge Introduction
- Challenge Set Building Instructions
- Student Participation Certificates
- Individuals Session Slides
- Robot Game Rulebook
- Mission Building Instructions
- Challenge Related Rule Updates
- UNEARTHED Season video resources on [FIRST LEGO League YouTube Channel](#)
- [Season content](#) (logos, templates, graphics, posters, wallpapers)

Go To Resources		
Email for General Support	FIRST LEGO League Challenge: How It Works	Getting Started with FIRST LEGO League Challenge video
FIRST LEGO League YouTube Channel	UNEARTHED 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 Educator Resources		
Self-Guided Professional Development	LEGO Education Teacher Community	LEGO Education Additional Lesson Content for SPIKE Prime and EV3
Social Impact Resources		
FIRST Mentoring and Coaching with FIRST videos	Inclusive Recruitment & Enrollment Strategies	Additional Training & Resources



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
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
Web Resources	
Team-Building Games and Activities for Kids	We Are Teachers
Team Building for Kids: A Complete Guide	Venture Team Building
FIRST at Home activities	A variety of free resources and links
FIRST Core Values through Social, Emotional Learning Activities	Part of <i>FIRST</i> at Home

Robotics Resources

Team Management 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 easy 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 and tricks from Droid Robotics on how to stay organized with tasks
Robot Design Resources	
Technical Resources	Links to resources for Challenge
Yoshihito Isogawa's YouTube Channel	SPIKE Prime building ideas from the author
Builderdude Robotics Tutorials	Builderdude, former <i>FIRST</i> LEGO League team
Mr. Hino's LEGO Robotics YouTube Channel	Various videos for <i>FIRST</i> LEGO League teams
Droid Robotics YouTube Channel	Video tutorials for <i>FIRST</i> LEGO League teams
Robot Design and Robot Game Prep Activities	Resources on building robots and preparing for the robot game from Droid Robotics
Engineering Design Process, Design, and Computational Thinking	
What is Computational Thinking?	Teach Your Kids Code article 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 to practice the engineering design process from Teach Engineering.org
Design Thinking Resources for Educators	Innovation Training article on design thinking
Design Thinking: A Problem Solving Framework (5:22)	Video from Edutopia providing examples of design thinking for educators

LEGO Education SPIKE Prime Resources

- [Download Software](#)
- [SPIKE Prime Competition Ready Unit](#)
- [SPIKE Prime Supplementary Lessons](#)
- [SPIKE Prime Lessons](#)
- [SPIKE Prime Product Support Videos](#)

LEGO Education EV3 Resources

- [Download Software](#)
- [MINDSTORMS EV3 Product Support](#)
- [EV3 Robot Trainer Unit](#)
- [EV3 Supplemental Coding Activities](#)
- [EV3 Lessons Coding Tutorials](#)



Innovation Project Resources

Video Resources	
How to Pick a Project Topic and Conduct Research (40:10)	Share & Learn Webinar Series from Droid Robotics
Essential Google Search Tricks for Research (6:42)	Common Sense Media
Reading More Than One Source on a Topic (3:15)	Khan Academy
Writing Videos for Kids: How to Evaluate Sources for Reliability (3:48)	Teaching without Frills
How To Create Surveys (20:25)	Droid Robotics
Innovation Project for <i>FIRST</i> LEGO League: Create and Iterate your Prototype (13:46)	The Moment Makers, former <i>FIRST</i> LEGO League team from Pearland, TX
Schooled by Kids: Presentation Skills, Part 1 (1:44) Presentation Skills, Part 2 (1:31)	Green Ivy Schools
Web Resources	
Innovation Project Prep Activities	Resources compiled by Droid Robotics for the innovation project
USPTO Educational for Kids, Parents, and Teachers	United States Patent and Trademark Office
Expanding Students' Ideas About How to Give Presentations	Edutopia
How to Help Students Develop Interviewing Skills	Edutopia
How to Skype with an Expert in your Classroom	Class Tech Tips
There's Got to be a Better Way Developing a Product	Resources from Fun Kids –UK children's Radio Station

UNEARTHED Resources

General Archaeology Resources

Web Resources	
Archeology for Kids - Archeology (U.S. National Park Service)	Overview of a variety of archaeology concepts from the US National Park Service
Department of Archaeology 	Explore the site of the Department of Archaeology from the University of Cambridge
Making a Field Journal AMNH	Guide to creating a field journal from the American Museum of Natural History
Merriam Webster: Archaeology Words	A list of common words used in the field of Archaeology
Into the Field: Archaeology Into the Field: Archaeology PBS LearningMedia	Activities and lessons from PBS Learning

Famous Archaeology Sites

Web Resources	
What are the Pyramids of Giza—and who built them? National Geographic	A summary of the great Pyramids of Giza
Historic Sanctuary of Machu Picchu - UNESCO World Heritage Centre	Learn about Machu Picchu in Peru
Must Farm Project Department of Archaeology	A remarkable discovery from the Bronze age
Smarthistory – Stonehenge	Explore the questions archaeologists have about Stonehenge in England
What You Need to Know About China's Terra-Cotta Warriors	Learn about the discovery of the terra-cotta figures

Archaeology Jobs and Tools

Web Resources	
Archaeology for Kids: OLogy AMNH	American Museum of Natural History resources that include archaeology jobs, tools, and activities
Artifacts	National Geographic link to look at artifacts and the tools used to discover them
The Archaeology Tools Guide - Women In Archaeology	An article discussing the various tools used by archaeologists in a variety of settings
Princeton archaeologists are using cutting-edge digital technologies to help reveal the ancient past	Explore the use of advanced technology in understanding artifacts and dig sites

Event Preparation Resources

Event Resources	
Events Page	firstlegoeague.org
Spotlight on Judging	FIRST LEGO League Judging Video
Judging Session Flow Chart, Rubrics, and Awards List	These resources are found on the Challenge Season Resources page
The Tournament Experience (1:55)	Video by LEGO Education on the basics of the tournament experience for a team
Customizable Student Certificates	Printable certificates to award to each student
Tournament Tips	FLL Tutorials Coaches Corner Tips

Career Resources

General Career Resources	
Visit the Learning Lab and search careers from A-Z	PBS Learning Media
Amazon Future Engineer Class Chat	Amazon
O*NET Online	United States Department of Labor
Career Exploration Lesson Plans	Nebraska Department of Education
Career Resources for Elementary Grades P-5	Workforce Solutions
Career Exploration	Career profiles from the United States Bureau for Labor and Statistics
Career Exploration Kahoot Course	Kahoot Courses for learning about careers and how <i>FIRST</i> prepares you for your future
X-STEM All Access	YouTube Playlist with one-hour long video interviews with various STEM professionals

Extension Activity Resources	
What is a Robot?	Lesson plan from PBS Learning Media
Wild-Inspired Robotic Arms	Video, background reading, and lesson plan from PBS Learning Media
Engineering for Good	Project-based Unit from PBS Learning Media
Project Management Fiction Books for Youth Ages 10-12	Project Management Institute Educational Foundation
Books on Inventors	Inventive Kids
Invention Education Curricula	Links to invention-focused lesson plans from Invent Ed
Drawing Designs in Detail	Hands-on activity plan from teachengineering.org

