



Multimedia Resources



FIRST® LEGO® League Discover Multimedia Resources

Below is a session-by-session list of Multimedia Resources for the SUBMERGEDSM 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).

Go To Resources		
Email for General Support	FIRST LEGO League Discover: How It Works Flyer	Getting Started with FIRST LEGO League Discover Video
Getting Started with FIRST LEGO League Discover Six Bricks Video	FIRST Family Engagement Resources	Discover More Family Engagement Video
FIRST LEGO League YouTube Channel	SUBMERGED 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 LEGO Replacement Parts	FIRST LEGO League Support Videos
Family Engagement Resources		
LEGO Education Let's Build Together Activities	LEGO Foundation Learning Through Play Activities	LEGO® Family YouTube Channel
Help Them Play with LEGO® DUPLO®	Six Bricks Activities for Families Videos	



Educator Resources		
Skills Progression	Standards Alignments	Scope and Sequence Options
FIRST Certified Professional Development	FIRST Education Philosophy	STEAM Park Teacher Guide

LEGO Education & Six Bricks Resources		
Self-Guided Professional Development	LEGO Education Teacher Community	Six Bricks Booklet
Six Bricks Activity Cards	Six Bricks Numbers & Letters Practice	Six Bricks Books on Various Skills
Equity, Diversity, and Inclusion Resources		
FIRST Mentoring and Coaching with FIRST videos	Inclusive Recruitment & Enrollment Strategies	Additional Training & Resources

SUBMERGED Season Resources

[Season Resources](#) page includes:

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

Core Value 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 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

Engineering Resources

Computational Thinking	
Computational Thinking in Preschool: What, Why, and How	Article and free app on the importance of computational thinking in pre-school students
Computer Science in Early Childhood Education	Article on the K-12 computer science frameworks
Computational Thinking for All	Resource toolkit for educators on computational thinking developed by ISTE
Unplugged Lessons in Computer Science Fundamentals	No tech coding lessons developed by Code.org. Course A for Kindergarten/Course B for Grade 1
Design Process	
Design Thinking: A Problem-Solving Framework Video (5:22)	Video for educators to understand design thinking by Edutopia
Design Thinking for Students and Teachers	Article with videos for teachers about design thinking and how to use it in the classroom
Design Thinking in the Kindergarten Classroom	Article and lessons with tips on how to use design thinking with your students
STEAM Park Resources	
STEAM Park Teacher Guide – Lessons: Functional Elements, Welcome to STEAM Park, and Gears	Guide created by LEGO Education to help facilitate the use of the STEAM Park materials

SUBMERGED Session Resources

<ul style="list-style-type: none"> • Welcome to STEAM Park • STEAM Park 2 • STEAM Park 3 • STEAM Park 4 	<ul style="list-style-type: none"> • STEAM Park 5 • STEAM Park 6 • STEAM Park 7 • STEAM Park 8 	STEAM Park Animations created by LEGO Education, great for introducing students to each part of the STEAM Park materials
Bringing STEAM to Life in Preschool Classrooms Video (1:32)		Video created by LEGO Education covering benefits of the STEAM Park set
STEAM Park Element List		Visual inventory created by LEGO Education, helpful to make sure you have all materials

General Ocean Resources

Video Resources	
OceanX - YouTube	Informational videos from OceanX
Live cams Monterey Bay Aquarium	Observe ocean animals at the Monterey Bay Aquarium
Splash and Bubbles PBS KIDS	Encourages kids ages 4 to 7 to explore the natural undersea world
Web Resources	
Just for Kids (noaa.gov)	A range of activities and videos about the ocean and marine life.
Ocean NASA Space Place – NASA Science for Kids	Games, crafts, activities and media from NASA
Book Resources	
Questioners Series by Andrea Beaty	Great series of books with characters who explore STEAM topics

Session 1: Let's Discover

Video Resources	
Ocean View Ready, Set, Zoom! (youtube.com) (2:11)	Short video about exploring coral reefs
Brian Skerry: Swimming with Giants Explorer Academy: The Truth Behind (youtube.com) (2:46)	Short video about the life of an underwater photographer
Web Resources	

Discover Six Bricks I (2:36)	<i>FIRST</i> LEGO League Video on the Discover More Six Bricks I Activity
Inspiration Photo from STEAM Park Functional Elements Lesson	LEGO Education STEAM Park Set Visual

Book Resources

"Ocean Animals: Who's Who in the Deep Blue" by National Geographic Kids	Introduces young children to the types of animals that live in the ocean.
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Vocabulary Resources

Ocean Definition	Vocabulary definitions from Britannica Kids
Explore Definition	Vocabulary definitions from Britannica Kids
Habitat Definition	Vocabulary definitions from Britannica Kids

Session 2: Ocean Journey

Video Resources

Wild Kratts - Ocean Explorers Kids Videos (youtube.com)	Wild Kratts explore the oceans
Ocean Habitats Science For Kids Year 2 STEM Home Learning (youtube.com)	Video about ocean habitats with fun facts

Web Resources

Discover Six Bricks II	<i>FIRST</i> LEGO League Video on the Discover More Six Bricks II Activity
Discover your World - NOAA	Activities and graphics related to the exploration of the planet

Book Resources

"Ocean: A Peek-Through Picture Book" by Britta Teckentrup	Picture book that explore different ocean environments
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Vocabulary Resources

Seashore Definition	Vocabulary definitions from Britannica Kids
Crew Definition	Vocabulary definitions from Britannica Kids
Ship Definition	Vocabulary definitions from Britannica Kids

Session 3: Sunlight Zone

Video Resources

Explore the layers of the ocean and animals Science for kids Ocean science Jocelyn Presents (youtube.com) (5:03)	Video introducing and exploring different ocean layers
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Web Resources	
Smithsonian Ocean Layers	Images and graphics to illustrate the different ocean layers
Deep in the Sea - TIME for Kids	Graphics and information on ocean layers and the life found in each zone
Book Resources	
"Over and Under the Waves" by Kate Messner	Explores ocean life found in the sunlight zone
Vocabulary Resources	
Sunlight Zone Definition	Vocabulary definitions
Coral Reef Definition	Vocabulary definitions
Ocean Life Definition	Vocabulary definitions

Session 4: Artificial Reefs

Video Resources	
Octonauts - The Artificial Reef Cartoons for Kids Underwater Sea Education (youtube.com) (10:00)	Octonauts video about the creation and population of artificial reefs
Web Resources	
New Artificial Reefs Office of National Marine Sanctuaries (noaa.gov)	Article on the creation of artificial reefs in the United States
Reef of the World - National Geographic	Educational resource with information on reefs found all over the world
Book Resources	
"A House for Hermit Crab" by Eric Carle	A books that introduces the concept of creating homes for ocean animals
Vocabulary Resources	
Artificial Reef Definition	Vocabulary definitions from Britannica Kids
Shipwreck Definition	Vocabulary definitions from Britannica Kids
Shelter Definition	Vocabulary definitions from Britannica Kids

Session 5: The Deep

Video Resources	
Journey into the Deep Sea - VR National Geographic (youtube.com) (9:00)	A virtual reality video that allows you to pan and be immersed in the deep sea
Web Resources	

OceanX Deep Sea Vehicles	Images and information on the deep sea vehicles operated by OceanX
Book Resources	
"The Dark, Dark Night" by M. Christina Butler	Introduces the mysteries of the deep ocean
Vocabulary Resources	
Submarine Definition	Vocabulary definitions from Britannica Kids
Functional Definition	Vocabulary definitions from Britannica Kids
Deep Definition	Vocabulary definitions from Britannica Kids

Session 6: Ocean Research

Video Resources	
Ocean Explorer: Katy Croff Bell Best Job Ever Nat Geo Kids (youtube.com) (2:30)	Oceanographers talk about the work they do to explore and understand the seas
Tools with Otters Ocean Explorers Baby Einstein Cartoon for Kids Toddlers show Sea Life (youtube.com) (8:15)	Video about tools that ocean animals use
Web Resources	
Careers - Sea History for Kids - National Maritime Historical Society	Explore images and articles about different ocean jobs
Book Resources	
"Ocean Animals: A Search and Find Book for Kids" by Elizabeth Golding	Interactive book to help children observe and discover marine life
Vocabulary Resources	
Captain Definition	Vocabulary definitions from Academic Kids
Marine Biologist Definition	Vocabulary definitions from Britannica Kids
Tools Definition	Vocabulary definitions from Britannica Kids

Session 7: Ocean Rescue

Video Resources	
Can Anyone Untangle This Sea Turtle From A Fishing Net? Dodo Kids Rescued! (youtube.com)	Video of a sea turtle getting rescued
Web Resources	
Rehabilitation The Marine Mammal Center	Article about the ways different animals are rescued and returned to the ocean

Book Resources	
"Follow the Moon Home: A Tale of One Idea, Twenty Kids, and a Hundred Sea Turtles" by Philippe Cousteau and Deborah Hopkinson	A story about a community coming together to help baby sea turtles
Vocabulary Resources	
Rescue Definition	Vocabulary definitions from Britannica Kids
Veterinarian Definition	Vocabulary definitions from Britannica Kids
Ramp Definition	Vocabulary definitions from Britannica Kids

Session 8: Ocean Facts

Video Resources	
Ocean Trivia for kids (youtube.com)	Video with ocean trivia
Web Resources	
Ocean NASA Space Place – NASA Science for Kids	Games, crafts, activities and media from NASA
Book Resources	
"The Big Book of the Blue" by Yuval Zommer	A book about general ocean facts
Vocabulary Resources	
Information Definition	Vocabulary definitions from Britannica Kids
Unknown Definition	Vocabulary definitions from Britannica Kids
Iterate Definition	Vocabulary definitions from Britannica Kids

Session 9: Future Ocean

Video Resources	
Coolest Ocean Facts! SciShow Kids Compilation (youtube.com)	Video by SciShow Kids about exciting ocean facts
Iteration in the Design Process (1:06)	Video by Science Buddies on the importance of failure and improving your design
Book Resources	
"What If You Had T. Rex Teeth?: And Other Dinosaur Parts" by Sandra Markle	A book that inspires curiosity and imagination, concepts that are important to ocean exploration
Vocabulary Resources	
Innovate Definition	Vocabulary definitions from Britannica Kids
Reflect Definition	Vocabulary definitions from Britannica Kids

Future Definition	Vocabulary definitions from Britannica Kids
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Session 10: Let's Celebrate

Video Resources	
Celebrate - GoNoodle Dance Along Song (2:34)	Video and song to play for students to dance along to
Hosting a Celebration Event (1:16)	Video by LEGO Education on the basics of hosting an event
Web Resources	
Customizable Student Certificates	Printable certificates to award to each student
Event Introduction	A very high-level overview of what the celebration event will look like

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

Additional Resources

Extension Activity Resources	
FIRST at Home	These free activities supplement the <i>FIRST</i> season materials
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
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



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