

TEAM MEETING GUIDE







Welcome!

In *FIRST*[®] LEGO[®] League Discover, children are introduced to the fundamentals of STEM while working together to solve fun challenges and building models using LEGO[®] DUPLO[®] bricks. Students gain habits of learning, confidence, and teamwork skills along the way. FIRST LEGO League Discover is one of three divisions by age group of the FIRST LEGO League program and serves the youngest children. This program inspires young people to experiment and grow their confidence, critical thinking, and design skills through hands-on STEM learning. FIRST LEGO League was created through an alliance between FIRST[®] and LEGO[®] Education.





FIRST® IN SHOWSM and MASTERPIECESM

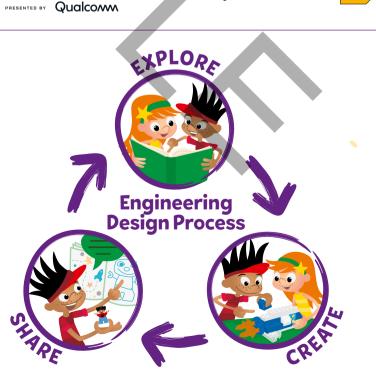
Welcome to the *FIRST*[®] IN SHOW[™] season presented by Qualcomm. This year's *FIRST* LEGO League challenge is called MASTERPIECE[™]. Children will learn about how people's passion for the arts are shared through STEM.

Children work together in teams using DUPLO pieces from STEAM Park by LEGO Education and the Discover set. Children should be encouraged to work with their teammates, listen to each other, take turns, and share ideas and pieces.

Program Outcomes

The children will:

- Use and apply the *FIRST* Core Values, habits of learning, and engineering design process to create solutions.
- Explore the season theme and their ideas through collaboration, building, and playful learning.
- Create and test their ideas and solutions.
- Share and communicate what they have learned with each other and others.



What Do You Need?

Engineering Notebooks (per child)

You will receive a set of *Engineering Notebooks*, which provide a place for children to record ideas and drawings. There

is one page to fill in for every other session. Provide one notebook to each child.

Discover More Set (per child)

The Discover More set is designed for children to take home and keep even after their Discover experience is complete. The set includes two sets of Six Bricks for an adult and child to participate in the activities and play a game together. Further information can be found on the Family Engagement page.



LEGO[®] Education STEAM Park Set (serves 8 children)

All teams will use the STEAM Park set to explore STEM concepts and form the basis of their team model. This set will be used throughout sessions, as well as at the celebration.

There is also a *STEAM Park Teacher Guide* that contains lesson plans as well as other ideas and inspiration. We suggest pre-teaching the following sessions from the teacher guide if the class or students are new to STEAM Park:

- 1. Functional Elements
- 2. Welcome to STEAM Park
- 3. Gears





Scan me for more STEAM Park lessons STEAM Park comes in a cardboard box. You could store STEAM Park in a plastic storage tub, which might be better with frequent use.

What Do You Need?

Discover Set (serves 4 children)

The Discover set consists of the Discover model, LEGO® DUPLO® figures, Six Bricks sets, mat, and building cards. The Discover model is intended to help children connect to the theme and provide a starting point for discussions and further building. The mat is used as a collaboration space to bring the models together. Each Discover set includes five sets of Six Bricks for use in the classroom. There are enough sets to give one to each child, plus one for the teacher. Each child will need one of each of the six colored bricks.



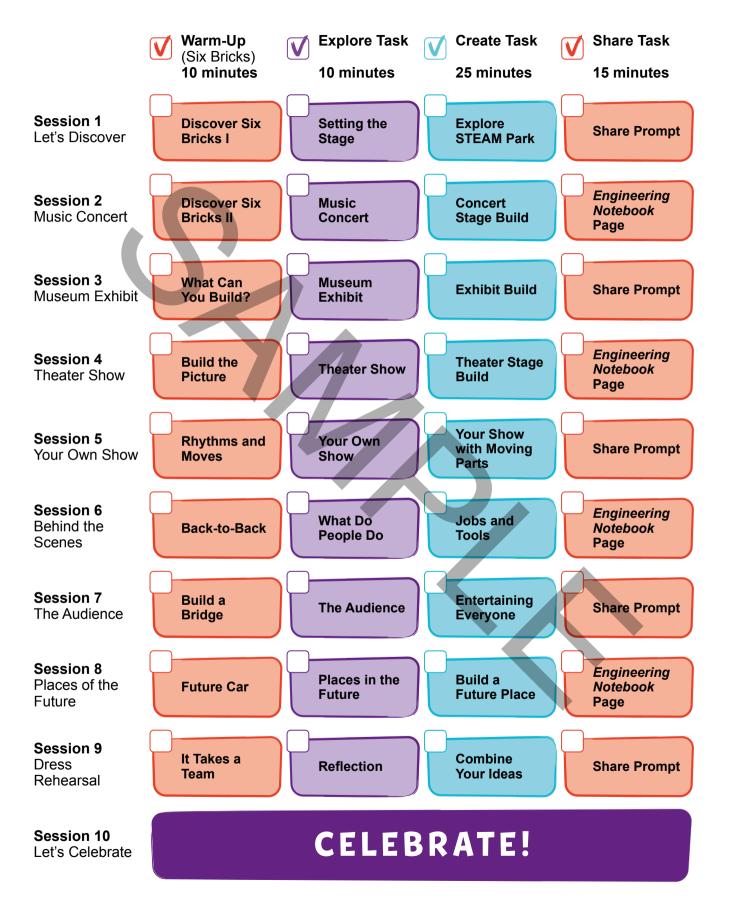
Scan me and view the Discover Set Video







Sessions At-A-Glance



Session 1: Let's Discover

Each session provides a deeper connection to support you in your teaching.

As you go through these sessions, don't worry if you don't know all the answers – and remember, there is no such thing as failure! Also, know that the children will make mistakes and iterate on their designs.

What can we build with STEAM Park that helps show what we love to do?

Each session has a big question that can be shared to frame the session

Six Bricks Warm-Up (10 minutes)

Discover Six Bricks I (see Appendix for full activity) The children will use the Six Bricks both in the classroom and at home with the Discover More set to learn new skills and explore new ideas.

Explore Task (10 minutes)

Introduce the idea of a **hobby** or an interest. Have a discussion to discover what the children like to do or what they are interested in and how they share it with others.

Imagine there is a school **performance** where the children get to choose what to share with the **audience**.

- What would you perform?
- What would it look like?
- What type of space would you need?
- Who would you like to share with?

Create Task (25 minutes) 🤌

Have the children build using the different pieces in STEAM Park. Encourage them to play freely and build anything they want that relates to their hobby or interest and how or where it could be shared with others.

Share Task (15 minutes)

Have the children share and explain what they built and how the pieces they identified relate to their interests. They could share in pairs or in their teams if they aren't comfortable sharing with entire class. All the children's builds will be correct and there is no one right answer to these sessions.

Outcomes

The children will play with STEAM Park, building creatively and trying new things.

The children will identify LEGO[®] pieces that relate to what they care about.

Tips

Send home the Discover More game (see page <u>10</u>) with the Discover More set with each child.

Check out the Functional Elements lesson for examples.



Az

Scan for STEAM Park Functional Elements lesson

Key Vocabulary

hobby, performance, audience

Playful Learning in Action

The children will use discovery to explore new ideas with STEAM Park. They will wonder and question what the pieces do.



Six Bricks Activities

In addition to the Six Bricks activities listed in this *Team Meeting Guide*, you can find more activities on legofoundation.com.



Scan me to find more activities

Discover Six Bricks I

Base Activity

- 1. Each child separates his or her bricks and spreads them out.
- 2. With closed eyes, they shuffle their bricks around.
- Keeping their eyes closed, each child picks any brick and holds it up high.
- 4. Now they open their eyes and see what color they hold.

Part 2

5. Let them pick any brick, look at it carefully, and turn it around and over in their hands.

Guiding Questions:

- What color brick do you have?
- Can you name all the different colors?
- Can you sort the bricks into warm and cold colors?
- Can you create a rainbow with your bricks?
- What color is your brick? How does it feel (rough, smooth, hard, soft, shiny, dull, etc.)?
- What spaces and shapes can you see on your brick? How many studs does each brick have?

Children learn to:

- Play and become familiar with the bricks.
- Listen and respond to questions.
- Use descriptive language.



Discover Six Bricks II

Base Activity

- 1. Children lay out their bricks in any order (see the picture).
- 2. Then they put a finger on the red brick and move it left.
- 3. They turn the dark blue brick upside down (or on its side).
- 4. Children click the green brick on the red and cover all studs.

Vary the instructions you give such as colors, moving bricks left/right, and positions.

Guiding Questions:

- How did you keep attention? (encourage some of the children to explain in turn)
- How can we make this activity harder? (Give more instructions, say them faster...?)

Children learn to:

- Use spatial skills to orient themselves.
- Keep attention and resist distraction.
- Initiate activities.



Appendix



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