

TEAM MEETING GUIDE



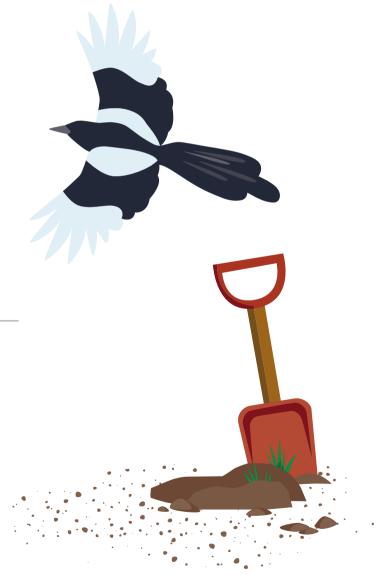






The **LEGO** Foundation









Intro to FIRST® LEGO® League Challenge

Friendly competition is at the heart of *FIRST*® LEGO® League Challenge, as teams of up to 10 children engage in research, problem-solving, coding, and engineering as they build and code a LEGO® robot that navigates the missions of the robot game. Teams also participate in an innovation project to identify and propose a solution to a relevant real-world problem.

FIRST LEGO League Challenge is one of three divisions by age group of the FIRST LEGO League program. This program inspires young people to experiment and grow their confidence, critical thinking, and design skills through hands-on learning. FIRST LEGO League was created through an alliance between FIRST® and LEGO® Education.









FIRST® AGE™ presented by Qualcomm and UNEARTHED™

Robots. LEGO bricks. Game pieces. Tools. Team T-shirts. Volunteer pins. Engineering notebooks. Pizza boxes. Banners. Remove the people from a *FIRST* community event, and these are some of the objects you might see left behind. They are the **artifacts** future archaeologists can use to put together the pieces of the *FIRST* story.

Archaeology helps **uncover cultural histories** through the study of artifacts. The field provides

insight into how living beings have interacted with our planet and each other throughout history. It reconstructs the stories of our communities so we can learn from our past.

During our archaeology-inspired season, *FIRST* teams and supporters will use STEM and collaboration skills to unearth new findings about ourselves and our collective communities to help build a better world. **Dig in with** *FIRST***!**





The Coach's Role

As a coach in *FIRST*® LEGO® League Challenge, your job is to guide and support your team while allowing them to take ownership of their work. The team will look to you to help them stay organized, ask thoughtful questions, and provide tools or resources when needed.

You don't need to be an engineer to be a great coach – your goal is to create a space where creativity, curiosity, and teamwork thrive and every team member feels empowered to contribute.

Coaches in FIRST® LEGO® League Challenge will:

- Facilitate Problem-Solving and Exploration: Guide the team as they design and program their robot, tackle the robot game missions, and develop their innovation project solution.
- **Promote Teamwork:** Encourage team members to share ideas, collaborate, and respect each other's contributions. Ensure every voice is heard and every team member feels valued.
- **Champion Core Values:** Model the *FIRST*® Core Values of discovery, innovation, impact, inclusion, teamwork, and fun. Celebrate how your team demonstrates these values inside and outside of team meetings.
- **Prepare the Team for Events:** Help the team organize their work, practice presenting to judges, and get comfortable explaining their robot, programming, and project solution.
- Be a Role Model: Celebrate every step of progress, no matter how big or small. Encourage resilience, a growth mindset, and a willingness to tackle new challenges.

Using this Guide

The sessions provide a guided experience for the *FIRST* LEGO League Challenge. The sessions are designed to be flexible so that teams of varying experiences can use the materials. Your role is to facilitate and guide the team during the sessions as they complete each task. The Sessions at a Glance page describes the sequence of objectives, while each session page shares specific outcomes. Remember, the tips and timing within this guide are just suggestions, and you can do whatever is best for your team.

FIRST® Core Values

The FIRST Core Values are fundamental to FIRST and unique to its programs. They emphasize friendly collaboration, respect for the contributions of others, teamwork, learning, and community involvement and are part of our commitment to fostering, cultivating, and preserving a culture of equity, diversity, and inclusion.

Our community expresses the FIRST philosophies of Gracious Professionalism® and Coopertition® through the FIRST Core Values.



We are stronger when we work together.



We respect each other and embrace our differences.



We apply what we learn to improve our world.



We enjoy and celebrate what we do!



We explore new skills and ideas.



We use creativity and persistence to solve problems.

FIRST® LEGO® League Challenge Overview

At the event, your team will present your robot design and innovation project work to the judges during the judging session, and your robot performance will be evaluated at the robot game. Core Values are

evaluated in all parts of your work, and you will receive scores from the judges and referees for how you apply them.

We express our Core Values through *Gracious Professionalism*®

and *Coopertition*®, and this will be evaluated during robot game matches

CORE VALUES

Demonstrate *FIRST*® Core Values in everything you do. Your team will be evaluated during the robot game and the judging session.

Your team will:

- Apply teamwork and discovery to explore the challenge.
- Innovate with new ideas about your robot and project.
- Show how your team and your solutions will have an impact and be inclusive!
- Celebrate by having fun in everything you do!

INNOVATION PROJECT

Your team will prepare a live, engaging presentation to explain the work you have done on your innovation project.

Your team will:

- Identify and research a problem.
- **Design** a new solution or improve an existing one based on your selected idea, brainstorming, and plan.
- Create a model, drawing, or prototype.
- Iterate on your solution by sharing it with others and collecting feedback.
- Communicate your solution's potential impact.

ROBOT DESIGN

Your team will prepare a short explanation on your robot design, programs, and strategy.

Your team will:

- Identify your mission strategy.
- Design your robot and programs and create an effective plan.
- Create your robot and programming solution.
- Iterate, test, and improve your robot and program.
- Communicate your robot design process and everyone's contributions.

ROBOT GAME

Your team will have three 2.5-minute matches to complete as many missions as possible.

Your team will:

- Build the mission models and set up the field mat.
- Review the missions and rules.
- Design and build a robot.
- Explore building and coding skills while practicing with your robot on the mat.
- Compete at an event!

What Does the Team Need?

LEGO® Education SPIKE™ Prime Set



Note: Other LEGO® Education sets such as MINDSTORMS® and Robot Inventor are also allowed.

SPIKE Prime set

Expansion set

Electronic Device

Each team will need at least one compatible device such as a laptop, tablet, or computer. Prior to starting Session 1, you need to download the appropriate software (LEGO® Education SPIKE™ or other compatible software) on to the device.







UNEARTHED™ Challenge Set

The Challenge Set comes in a box that contains the mission models, challenge mat, and 3M™ Dual Lock™ Reclosable Fasteners, coach pins, and season tiles for the team members. The team should build the models very carefully using the building instructions.

> Season Resources



Challenge Mat and Table

Set up a table with the challenge mat in your classroom or meeting space. Teams can practice on the mat by placing it on the floor. However, robot game matches at official events will be played on a table complete with sidewalls. Instructions to build a table can be found on the Season Resources page.



Managing the Team

Facilitator Tips

- The team will be doing the work. You will facilitate their journey and remove any major obstacles and ensure their safety. Guide them as they work independently through the tasks provided in each session.
- Some sessions might take two hours or more to complete. You might need to work on a session in multiple team meetings depending on how long you meet. Be flexible!
- Set team guidelines, procedures, and expected behaviors for your meetings.
- Use the guiding questions in the sessions to provide focus and direction to the team.
- Jobs in the Project Sparks connect to the Career Connections page in the back of the Engineering Notebook.
- Teammates should be encouraged to work with each other, listen to each other, take turns, and share ideas.

Material Management



- Wait to dismiss your team until you look over their SPIKE™ and Challenge Set.
- The lid of the SPIKE Prime set can be used as a tray to keep pieces from rolling away.
- Use plastic bags or containers to store any unfinished builds or assembled models.
- Designate a storage space for the built mission models, challenge mat, and table.
- The teammate in the material manager role can help with the process of clearing away and storing materials.

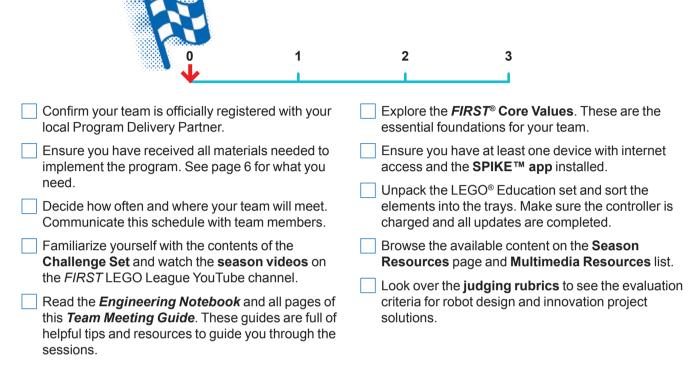
Engineering Notebook Tips

- Read the *Engineering Notebook* carefully. The team will share the notebooks and work on them collaboratively.
- The notebook contains relevant information and guides the team through the sessions.
- The tips in this *Team Meeting Guide* will direct you how to support each session.
- As facilitator, guide the team members in the performance of their roles during each session. Team roles are outlined in the *Engineering Notebook*. Using roles helps your team function more efficiently and ensures that everyone on the team is involved.



Pre-Season Checkpoint

Here are some helpful steps for getting started with coaching *FIRST*® LEGO® League Challenge. Use this checkpoint to help you get ready before your first session with the team.



Sessions 1-4 Tips



CORE VALUES

Have the team set goals for what they want to accomplish together and have individual team members set their personal goals.



INNOVATION PROJECT

Explore the Project Sparks and narrow the team's focus on which problem they want to work on. They can select a Project Spark problem or choose one of their own.



ROBOT DESIGN

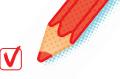
If the team is new to using their LEGO Education set, take some time to get them acquainted with it. Have the team complete the Tutorial Activities.



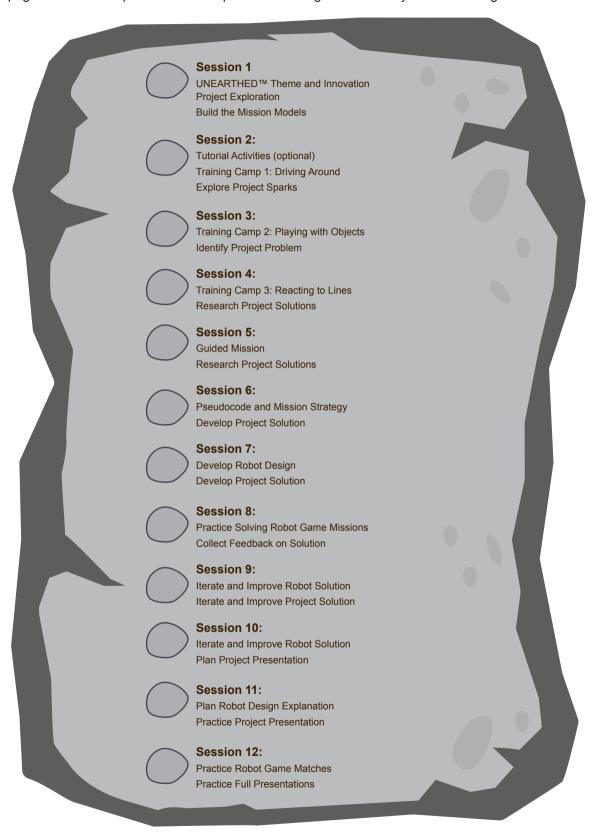
ROBOT GAME

Place the mat and models in a safe location after each session if they have to be stored.

Sessions at a Glance



Each session starts with an Introduction and ends with a Share activity. Details for these activities are provided in the session pages that follow. Tips and notes are provided in this guide to assist you in facilitating each team meeting.



It may take two hours or more to complete the tasks in a session. If needed, split sessions into two separate meetings.

Session Get Started

Outcomes

In this session, the team will . . .

- Explore the UNEARTHED™ season theme and get to know each other.
- Build the mission models and make connections to the Challenge story and Project Sparks.
- 1 Have the team watch the season videos on the FIRST® LEGO® League YouTube channel and read pages 3-9 in their Engineering Notebooks.
- 2 Provide the model building instructions and show the field setup video to the team.
- The team can work together or as individuals to build the models. Be sure to inspect and test the models to ensure they function correctly. Use the Robot Game Rulebook and mission video to understand how the models work.
- 4 Encourage the team to investigate the mat and the mission models to inspire them. The team should record ideas for possible innovation project problems.
- 5 Lead a discussion about the Project Sparks and Challenge story and how they relate to the mission models.



Season Resources Page

Introduction Get to know your team members and select your team name. Watch the season videos and read pages 3-9 to learn how FIRST® LEGO® League Challenge works and about the UNEARTHED™ robot game and innovation project. Tasks Learn more about the season theme by building the robot game mission models. Place each model where it belongs on the Challenge mat.

game mission models. Place each model where it belongs on the Challenge mat. Read page 7 of the Robot Game Rulebook to learn how to set up the table.

- Explore how the models work.
 Connect them to the Project
 Sparks on page 6.
 Use the space on this page to
- write notes about the mission models or to answer the reflection questions.

→ Share

Discuss the reflection questions.
Get together at the mat. Talk about how the mission models connect to the UNEARTHED theme.

Clean up your space.

→ Reflection Questions

- What ideas does your team have after reading about the innovation project?
- How do the mission models relate to the Challenge story or Project Sparks?
- Which mission models look interesting to you?



Session

Record information about your team here.

Sessions begin with an

introduction prompt for the team to discuss or record ideas.

Our notes:

Open space is provided in each session for the team to collaboratively capture their thoughts, ideas, diagrams, and notes.

Tips

- Use the checkboxes to mark when you are finished with a task.
- During each meeting, record what you have learned and what you want to improve.

???

Some sessions will have helpful tips for the team.



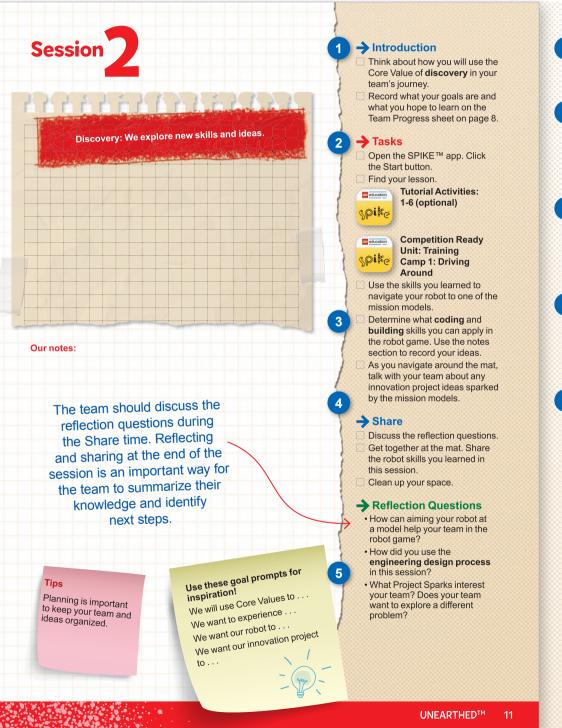


The Robot Game Rulebook is a great resource to use throughout the season.

10 Engineering Notebook | Sessions



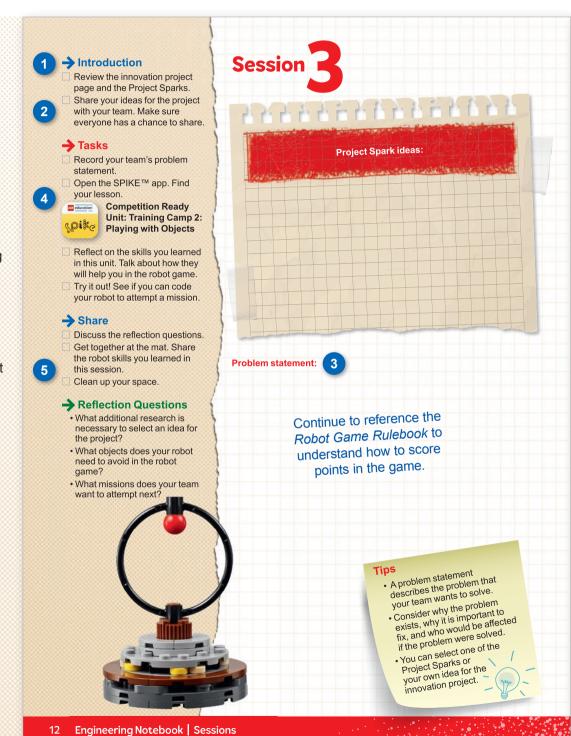
- Build a driving base and code it to move forward, move backward, and turn.
- Explore and research ideas for their innovation project.



- 1 Teams will explore the six Core Values throughout their season.
- The Tutorial Activities are optional but recommended if your team has minimal coding and building experience.
- 3 After a program is downloaded onto the controller, it cannot be transferred back to be opened and edited.
- 4 Have the team practice their new skills by trying to drive the robot to a model and return to home.
- 5 The team should reference the innovation project page and begin identifying problems. The team will need to have their problem statement finalized by Session 3.

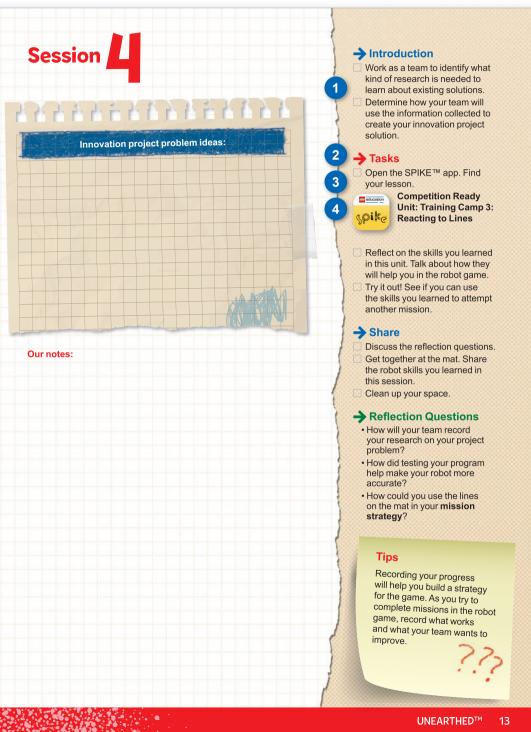


- Identify their innovation project problem to solve and then research solutions. (Revisit page 6 of the *Engineering Notebook*.)
- Code their robot to power an attachment and avoid obstacles using a sensor.
- 1 If your team has already agreed on the focus of their project, encourage them to begin researching the topic. You can find helpful resources on the Season Resource page.
- While the team might not choose every member's preferred problem, they should choose something everyone supports.
- 3 The team will write their problem statement here. Remember, they can choose one of the problems from the Project Sparks if they are unable to come up with their own idea. If the team has multiple ideas, they could use a voting process to narrow it down to one.
- 4 Encourage the team use their Engineering Notebooks and to take notes when researching their ideas.
- 5 Have the team think about how to use the attachment from the robot lesson to complete missions.





- Determine what kind of research is necessary to learn about the problem.
- Code their driving base to detect a line using a sensor.
- Begin to think about their strategy for the robot game.



- Source examples for research include websites, videos, books, magazines, personal stories, user experiences, and interviews.
- 2 Plug in the controller and open the app periodically to check for software and firmware updates.
- 3 Have the team follow the program on the screen to see how it matches the robot's actions. This will help them debug their programs.
- 4 Try to start the robot in the same or a very similar place each time in one of the launch areas.

Checkpoint 1



The team has bonded and are working well
together. If they need more support to achieve this
do some extra team-building activities.

The tea	m should co	ontinue	practicing	the new	robot
skills the	ev have lear	rned			

All models should be built, placed on the mat,	and
secured with Dual Lock squares as needed.	

- The team can spend extra time on the robot lessons before moving on. Remember to be flexible with the sessions.
- The team has reviewed the missions and rules in the Robot Game Rulebook.

- The team has selected the focus of their innovation project and has written their problem statement. They should now be researching their problem and any existing solutions.
- The team can complete the exploration activity listed in the *Engineering Notebook* Career Connections page.
- Check in with the team on their progress on their personal and team goals. They can adjust their goals based on information they have learned in the first four sessions.

Sessions 5-8 Tips



CORE VALUES

Remember that the Core Values are about how the team behaves and works together. They should be demonstrated by all team members all the time.



INNOVATION PROJECT

The team will begin to develop their innovative solution and share their ideas with others for feedback. Remind the team to take notes during the development process so they can present their progress to the judges.



ROBOT DESIGN

At the robot game matches, two robot game tables will be set up next to each other. However, during the sessions, you can work with a single robot game table.

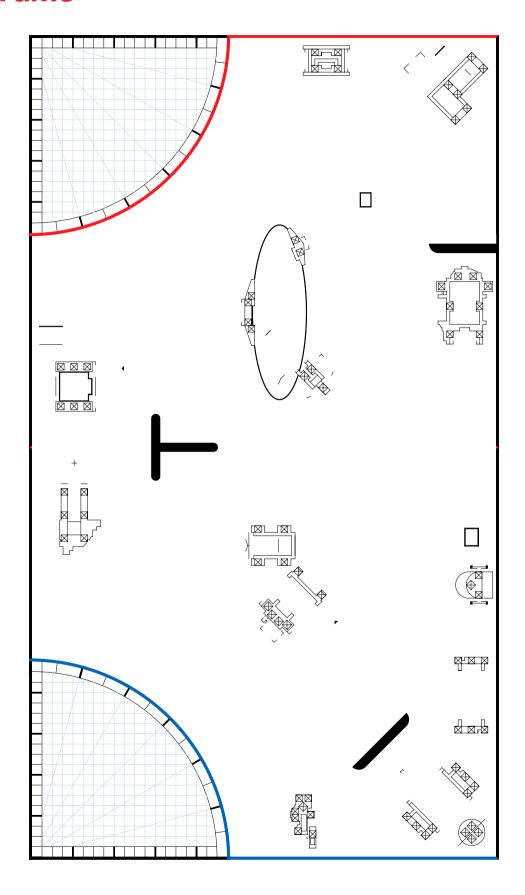


ROBOT GAME

Look for missions that:

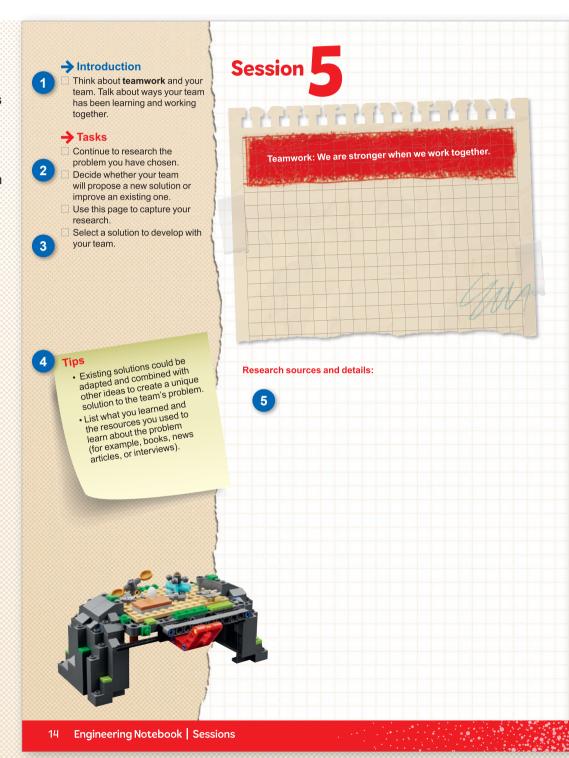
- Use basic robot skills like push, pull, or lift.
- · Have models close to a launch area.
- Involve navigation with line following.
- · Have easy access to home.

Wireframe

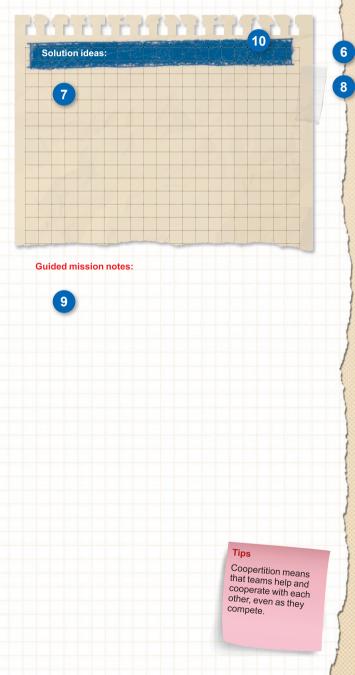




- Apply coding principles to the guided mission.
- Decide to propose a new solution to the problem or improve on an existing solution.
- 1 Team-building activities are great for teams to develop their Core Values and learn how to work together.
- 2 Teams should be able to clearly define the problem they have chosen. This will be evaluated during the judging session at the event.
- 3 Have the team reference the rubrics often.
- 4 Teams should use design thinking to create their solution to the problem.
- 5 The team should record what they learn and note any questions that still need to be researched to develop their solution.







→ Tasks

☐ Open the SPIKE™ app. Find your lesson.

Spike

Competition Ready Unit: Guided Mission



Competition Ready Unit: Assembling an Advanced Driving Base (optional)

- Have fun practicing the guided mission until it works consistently.
- Continue to practice completing other missions in the robot game.
- → Share
 - Discuss the reflection questions. Get together at the mat. Share the robot skills you learned in this session.
- Clean up your space.

→ Reflection Questions

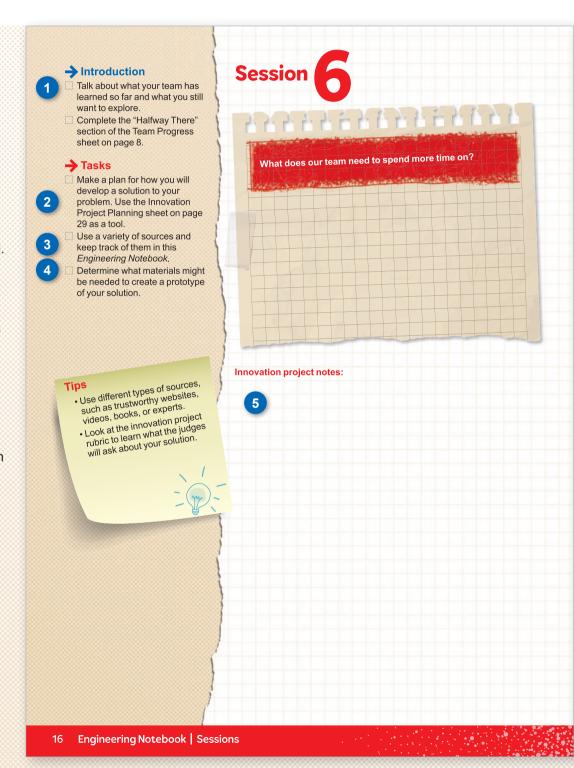
- Is there someone your team can talk to about the problem you selected? What questions would you ask them?
- How will your team work together to develop an innovative solution to the problem?
- What does the guided mission teach you about Coopertition®?
- How does the engineering design process help you create a strategy for solving missions in the robot game?

- The team should be able to describe how everyone contributes to the team.
- 7 If the team is sharing one robot, they can code on individual devices and then take turns running their programs on the robot.
- The provided program for the guided mission will not only solve the mission but also be helpful to use on other missions. A guided mission is provided only for SPIKE™ Prime sets.
- 9 Remind the team to test program changes in small steps instead of changing the entire program at once.
- 10 If an attachment is needed for a mission, keep it in a plastic bag labeled with the mission number.

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- Begin developing the solution to their innovation project problem.
- Create a mission strategy plan and write pseudocode for a mission.
- 1 Provide extra paper or a shared digital file for the team to capture the process they use to create their robot and innovation project solutions.
- 2 The team will be judged on their final robot and project solutions as well as the process they used.
- 3 Take some extra time with the team if needed to explore all the solution ideas and narrow it down to one.
- 4 The Innovation Project Planning sheet on page 29 of the Engineering Notebook can be completed over multiple sessions to help the team document their process.
- 5 The team will begin to develop their own innovation project solution.





Robot game strategy notes:



- Review the "Robot Game Missions" video and Robot Game Rulebook.
- Discuss which missions your team has attempted so far and which missions you want to try. Start to develop a mission strategy.
- Come up with a plan to test and improve your robot.
- Complete the Pseudocode sheet on page 28 for a selected mission.
- Upload your program ideas to your robot using the SPIKE™ app and see if they work.
- Continue to practice completing missions in the robot game.

→ Share

Discuss the reflection questions. Get together at the mat. Share the robot skills you learned in this session.

Clean up your space.

→ Reflection Questions

- How can documenting your progress with the innovation project help during your team's judging session at the event?
- What are your innovative ideas to solve the problem?
- How can your robot's attachments and program support your team's mission strategy?
- How can you iterate and improve your robot design used in previous tasks?

Tips

- A mission strategy determines which missions to attempt and the order you will attempt them.
- Pseudocode is a written description of the steps for your planned robot program.
- Think about what attachments and sensors you will use during the game and if you will need to change them.

sessions. Ask the team what they feel most proud of so far. What are they excited about?

6 The team should pause

to reflect on the last few

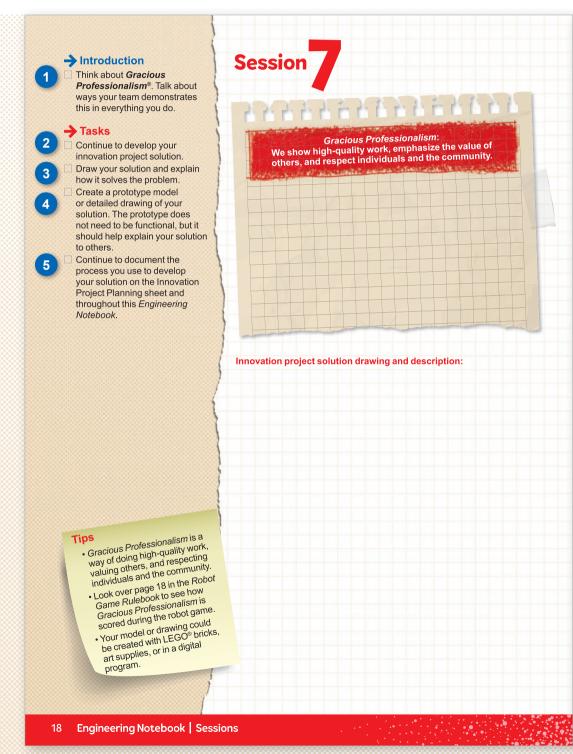
- Provide sticky notes and planning cards for the team to place on the mat to map out their mission strategy.
- 8 Encourage the team to find the missions where points can be scored most easily and to do them first.
- 9 The Pseudocode sheet on page 28 of the Engineering Notebook can be photocopied. It can be used for each mission the team attempts.



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- Continue developing their innovation project solution and create a model or prototype.
- Design and iterate on their robot to complete additional robot game missions.
- 1 Look for opportunities for the team to justify and research their innovation project ideas.
- 2 Prototypes do not need to be functional when presented to judges. The team should be able to describe in detail how it would work.
- 3 Provide a variety of materials for the team to use to make a prototype or model of their project solution.
- 4 Have the team think of people they would like to get feedback from on their solution.
- 5 Help the team schedule time to share and collect feedback on their ideas.





Robot design notes:

→ Tasks

- Continue to test and improve your robot and its attachments to complete missions in the robot game.
- Create a program for each new mission you attempt or combine mission solutions into one program.
- Revisit previous lessons to develop your coding skills or work on solving the missions.

→ Share

- Discuss the reflection questions.
 Get together at the mat. Share the robot skills you practiced in this session and the work completed on the innovation project.
- Clean up your space.

→ Reflection Questions

- Can you describe your solution in a way that is easy for others to understand?
- How can you improve your drawing or prototype so it represents your solution?
- Who can you share your solution with for feedback?
- How can you iterate and improve your robot design or your attachments?
- How are you using the engineering design process to develop your mission strategy?

Tips

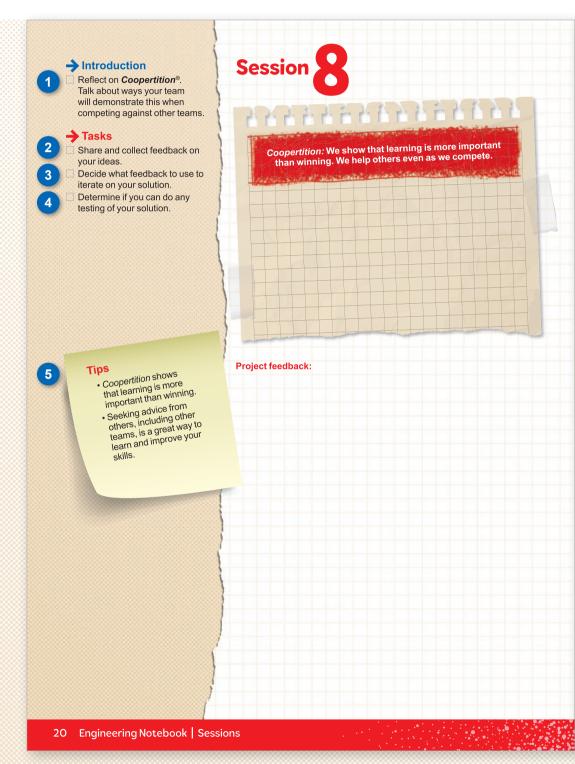
- You can improve the robot used in the previous sessions or create a new design.
- Practice explaining how the program on your device is making your robot move.

- 6 Check the team knows and understands the Core Values and *Gracious Professionalism*®.
- 7 Different members of the team can be responsible for specific missions; each member can develop and own the robot run for those missions.
- 8 When the team has a base robot, they should do a straight drive test. If it doesn't drive straight, troubleshoot by first looking at the robot's center of gravity and balance.
- 9 When creating their mission strategy, the team should determine which launch area will be the robot's starting position. Make sure there is enough room for the whole robot to fit inside the launch area.
- 10 Encourage the students to explain their program as the robot moves and make notes about what they observe during testing.

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- Evaluate and improve on their innovation project solution.
- Design robot attachments and create programs to solve missions.
- 1 The team can create a survey to evaluate their solution or ask for feedback from someone affected by the problem.
- 2 The team should iterate and improve their innovation project solution following the feedback from others.
- 3 Consider joining a webinar or watching interviews to hear from experts.
- 4 The team should reference the rubrics so they can be prepared for judging at the event.
- 5 The team should think about who their innovative project solution is for.





Robot and attachment design notes:

You could . . .

what the robot will do.

Describe the attachments you built.

Explain your different programs and

Explain your robot design while

looking at the rubric criteria.

Tasks

Choose another robot game mission to work on.

Think about how each new mission fits into your mission strategy. Iterate and refine your program so your robot completes the mission

Be sure to document your design process and testing for each mission!

→ Share

Discuss the reflection questions. Get together at the mat. Share the robot skills you practiced in this session and the work completed on the innovation project.

Clean up your space.

→ Reflection Questions

- How has your innovation project solution changed after sharing it with others?
- How will you know if your solution is going to make a positive impact on others?
- · How has your team used Core Values to develop your robot and project solution?
- · In what order will you run the missions in the robot game?
- - It can take lots of practice to build the attachments you need to complete missions.
 - Document the changes and improvements you make and share them with judges at the event.

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- 6 Use the Core Values where appropriate to encourage the team. To celebrate the team learning these important values, share examples of when the team demonstrates these principles.
- 7 The team should think about strategy when choosing missions to solve. Multiple missions can be completed on the same run to save time.
- 8 Encourage the team to discuss how their program works. Break the program into blocks that control one movement each.
- Treat the robot game like a sport. The team needs to practice, practice, practice to perform consistently in the robot game.
- 10 The robot's starting point in the launch area strongly influences where it ends up. Have the team keep good notes about where to place the robot. The Pseudocode sheet in the Engineering Notebook can be used for this purpose.

Checkpoint 2



- The team has completed all the robot lessons outlined in Sessions 1-8.
- The team has selected an innovation project problem, conducted research, designed a solution, and shared it with others.
- Visit the Season Resource page to print copies of the judging flowchart, rubrics, and any other information that will help prepare for your event.
- Provide the team with the judging documents.
- If you are implementing a Class Pack, you can make copies of the Class Pack rubric from the Class Pack Guide.

Sessions 9-12 Tips



CORE VALUES

Make sure the team can provide concrete examples of the Core Values they use. Don't forget Coopertition® and Gracious Professionalism®.



ROBOT DESIGN

The team should continue to attempt new missions and think about their mission strategy. Practice combining multiple mission attempts during a 2.5-minute game to prepare the team for event day. Remind the team to document changes to their mission strategy so they can share their progress with the judges.



INNOVATION PROJECT

The team will need plenty of time to iterate, improve, and create a model or drawing of their innovation project solution. From Session 9 on, they should focus on progress toward their innovation project solution and presentation, using the rubric as a guide.



ROBOT GAME

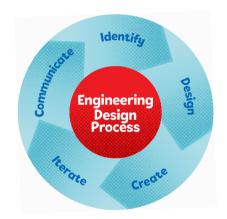
The team needs to practice a reliable and consistent robot run that they know will score them points. Track how much time each run takes to understand what other missions could be attempted in the game.

Understanding the Rubrics



Innovation Project and Robot Design

The rubrics used to evaluate the teams in these areas are based on the engineering design process. The team uses this process while working on their project and robot. Team members need to demonstrate and explain everything they have worked on during the judging session.



Core Values and Gracious Professionalism®

Teams express the six Core Values through the way they behave with each other and with people outside the team on their learning journey. In FIRST® LEGO® League Challenge, this is called Gracious Professionalism®.

Teams will have their Core Values evaluated during the judging session while they share about their innovation project and robot design.

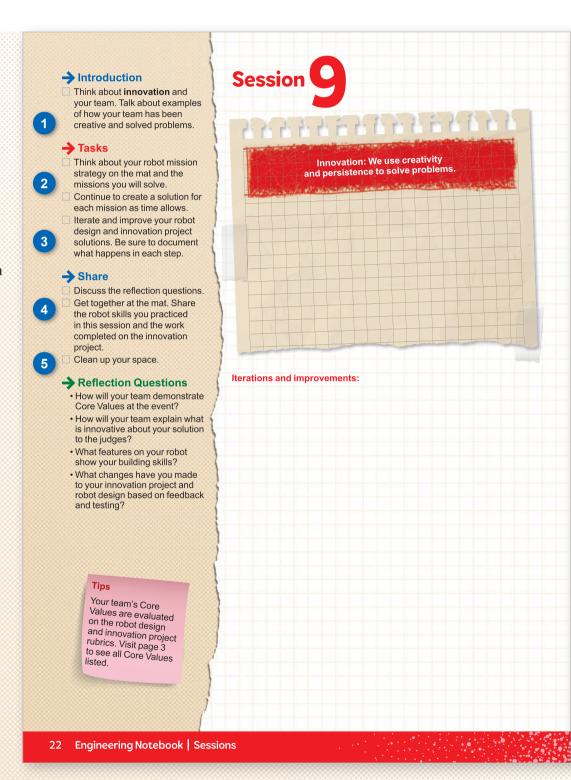
Teams will also be scored on their *Gracious Professionalism* at every robot game match. Remember, if they cannot attend a match, they should let the referee know.



Download Rubrics



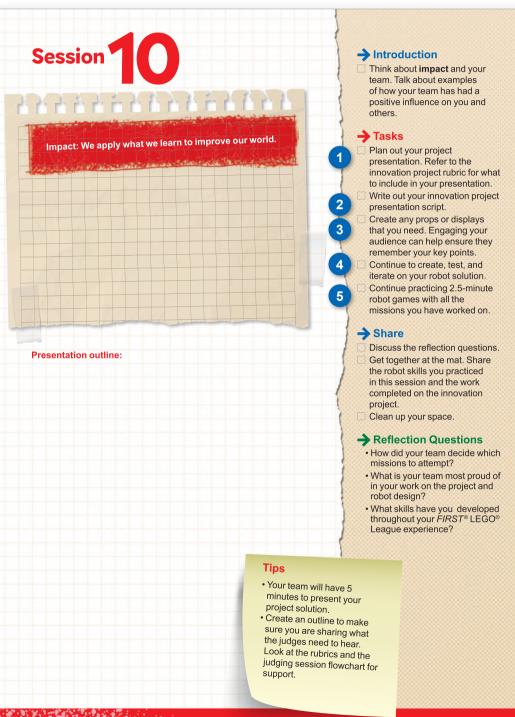
- · Code their robot and test their mission strategy.
- Iterate and improve their innovation project solution based on testing and feedback.
- 1 Examples recorded here could be used for the innovation project presentation or robot design explanation.
- The team should have a clear strategy for which programs to run and in what order during the robot game.
- 3 The team can also have a backup of their programs on external drive like a USB stick or an online storage website.
- 4 The Share tasks are important to keep the whole team updated on how the project and the robot are developing.
- 5 Core Values are evaluated throughout the judging session while teams present on their innovation project and robot design. Review the judging rubrics with the team.





In this session, the team will . . .

- Iterate and improve their innovation project solution based on testing and feedback.
- · Code their robot and test their mission strategy.

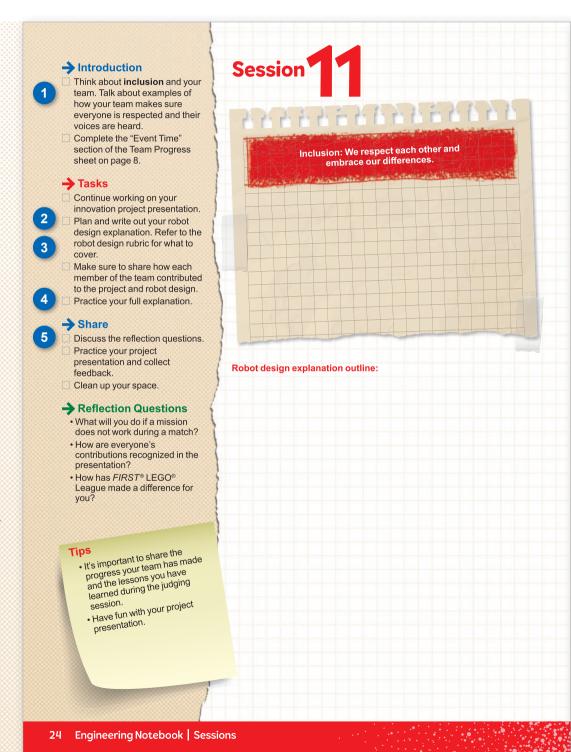


- 1 Provide the team with the innovation project rubric.
- The presentation can be a slideshow, poster, play, or even a skit. Props can be used, such as costumes, shirts, or hats. Make sure teams have a drawing or model that represents their solution to show to judges.
- 3 Teams may use a script for their judging session presentation. Provide copies for each team member.
- The team might need more space to store all their materials for the presentation.
- 5 Encourage the team to run their robot within 2.5-minute practice matches so that they get used to the time limit.

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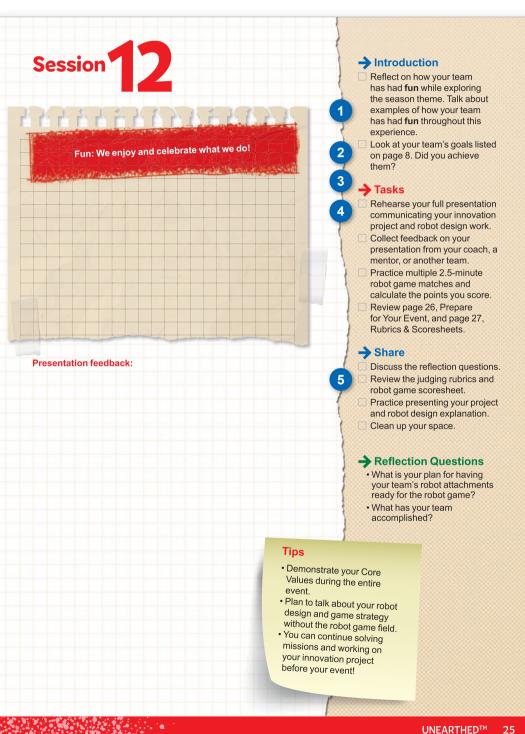
- Finalize their live innovation project presentation.
- Finalize their robot for the robot game and prepare their robot design explanation.
- 1 Provide the team with the robot design rubric.
- 2 Have the team reflect on their progress and complete the final section of the Team Progress sheet on page 8 of the Engineering Notebook.
- 3 It's important for the team to practice communicating their innovation project and robot design solutions.
- 4 Every team member should participate in the presentation at the judging session. If the team needs any accommodations, contact the organizer of the event.
- 5 As part of their mission strategy, the team should know who will run the robot during the matches.





In this session, the team will . . .

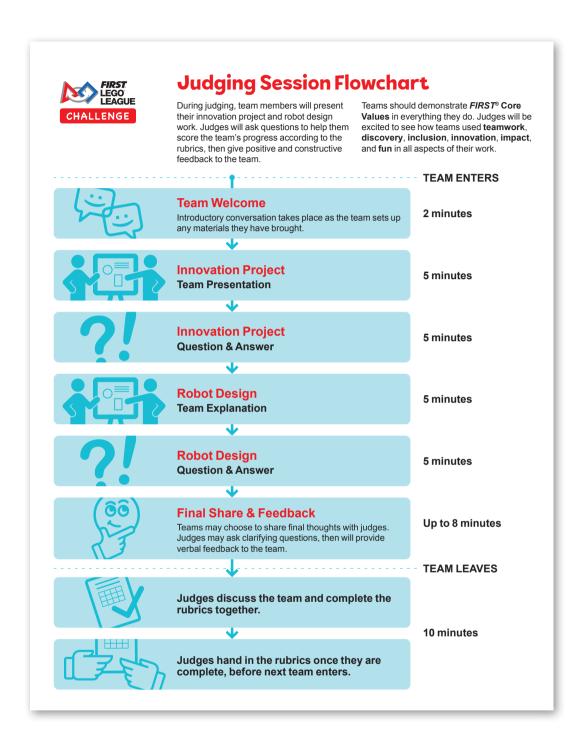
- Practice their presentation of their innovation project and robot solutions.
- Run practice robot game matches.



- Try to split the time in this session equally between rehearsing the presentation and practicing the matches.
- 2 Encourage the team to practice their presentation before the event. They can practice by sharing their solutions with others. The judging session flowchart tells you how much time is allowed for the presentation.
- Have the team run their 2.5-minute robot matches. Make sure they practice running their programs in the right order.
- 4 The team should have a contingency plan for if things don't go as planned during the robot game. They could identify other missions to run.
- 5 Remind the team about the Core Values and how they will show them throughout the event. including at every robot game match.

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Prepare for the Event



It's normal to feel like there's still so much to do as your first event approaches. The most important thing is to strive to complete as much as possible and come ready to share what you've accomplished so far. Whether it's your robot design, innovation project, or Core Values, your event will give you new ideas and inspiration to keep building on what you've started.

If there is too much information for the team to cover in detail, visual aids can be very useful references. Make sure the team practices how they will use them in the judging session, keeping in mind the time limits for sharing their innovation project and robot design work.

Final Checkpoint

0 2 1

The goal of a Challenge event is for the team to celebrate their hard work, compete to the best of their ability, share what they have learned, and, most importantly, have fun! Here are some helpful steps to help your team prepare.

Determine what type of event you're attending and identify the organizer of your event. If you purchased a Class Pack, the event will be your responsibility. Check out the <i>Class Pack Guide</i> for	 Have the team prepare a checklist of materials that are needed for the event, including your robot and attachments, innovation project materials, and any scripts or robot programming notes. Take a moment to reflect, celebrate how far you've come, and get excited to share your progress. Every team starts somewhere, and your event is a chance to grow, learn, and have fun! 		
more details. Decide how your team will get to the event. Confirm what time they need to arrive and how long they are expected to stay. Encourage families and caregivers to attend if possible.			
Review the details and requirements for the event you are attending. They can vary depending on the type of event.	Remind the team that FIRST® LEGO® League is about the process of learning, experimenting, and improving. Participating in your first event is an important step in this process.		
Ensure each team member knows the key aspects of your work and can contribute to explaining it according to the rubrics . You could also practice presenting your work with an adult or another team for feedback.	At the event, encourage the team to engage with other teams to share what they have learned and to support each other.		

Beyond FIRST® LEGO® League

Connect with a FIRST® Tech Challenge or FIRST® Robotics Competition team so that your Challenge team can see how they can continue their FIRST experience in the future.





Finished with Your Season?

Here are some suggestions for wrapping up after your team's last event:

- Have the team share their experience with friends and classmates.
- · Have the team continue developing their innovation project.
- Discuss your rubric scores and feedback received.
- Hold a team celebration! Clean up and take apart the robot and mission models.
 - · Allow time for the team to reflect on their experience.
 - Inventory the LEGO® set to make sure all the pieces are there.

