



Presentation- Arduino

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Disclaimer

It is your responsibility to read and understand this document on a regular basis because we may update it from time to time.

The Presentation

The presentation gives your team an opportunity to show off your work and what you learned and know in English or French! This includes concepts about programming, mechanical design (building), and teamwork skills.

The presentation's format:

- 5 minutes – teams present to the judges
- 5 minutes – judges ask the team questions

If your team is registered in two Arduino challenges, your team must mention both challenges in your introduction. However, your team will talk about only **one** of the two challenges for the remainder of the presentation. If your team is registered in both an Arduino and a Lego challenge, you must present the Arduino challenge.

Your display is meant to help you present your work to the judges. It can be a tri-fold display, Bristol board poster, **or** an electronic display (PowerPoint, and Google Slides). Teams with a physical display (tri-fold display or Bristol board poster) are encouraged to put it on display for everyone to see in the designated area in the gym! Teams with an electronic display are encouraged to visit the info desk in the gym, so we can share your work on a projector to everyone at the competition.

There will be no setup time on competition day, so electronic displays must be ready for presentation time on a laptop or tablet. Teams using electronic displays (PowerPoint and Google Slides) are fully responsible for making sure it works on competition day. **Judges will mark what they see in front of them during your team's presentation time slot. No adjustments for the display will be made due to technical issues (i.e. internet connection problems and electronic device malfunctions).**

The presentation will be worth 30% of your final score on competition day. The other 70% will be based on how your team performs during the round robin (20%) and elimination rounds (50%). **It is important that your team does well while competing and while presenting to judges, because rankings have changed in the past due to the presentation.**

Requirements for the Presentation

For each section of the presentation, your team should talk about it for approximately the indicated time in parentheses.

1. Introduction / Background (45 seconds)
 - a. Team member names (judges only need first names)
 - b. Team name, school/community group name, grade level
 - c. Registered challenges
 - d. Describe your registered challenge
 - i. If your team is in two challenges, pick one to describe and use that **same** challenge for the rest of the presentation.
2. Hypothesis (30 seconds)
 - a. Describe **one** of your team's earliest ideas for programming the robot.
 - b. Explain why your team thought this idea would be helpful for solving the challenge.
3. Procedure / Methods (2 minutes)
 - a. Describe how your team chose to split up the work between team members.
 - b. Describe how your program works using screenshots of your code or a flowchart.
 - c. Describe how you tested the program.
4. Results, Discussion, and Conclusion (1.5 minutes)
 - a. Give a summary of test results for your robot.
 - b. Expand on **one** milestone **and one** setback you encountered while preparing for the competition.
 - c. Briefly describe how your final program gives your team an advantage over other teams.

Tips for the Display

1. Ensure your display's content is relevant to your presentation.
2. Use it to help your team present your work to the judges during your presentation!
3. Ensure your display is attractive, well-organized, and free of spelling or grammar errors.
4. If your team is using Google Slides for the display, please ensure you have a backup plan in case the internet is unreliable on competition day. Judges will only mark what they can see in front of them.

Tips for the Presentation

1. General tips
 - a. Keep a log of each meeting you have as this can help you remember what you can talk about for the presentation.
 - b. Practice makes perfect!
 - c. Know your entire project inside and out.
 - d. If you are using Google Slides for your display, have a backup plan in case it does not work!
 - e. Make sure everyone in the group presents.

2. Tips for the introduction
 - a. When describing one of the challenges, make sure it is in your own words. Do not copy exactly what is on the website.
 - b. When describing your registered challenge, make sure your team mentions its main objective.

3. Tips for the Procedure/Methods section
 - a. When describing your program, go through it almost step by step. Mention the sensors you used where possible.
 - b. When talking about testing, mention how you would know whether your robot passed or failed the test.

4. Tips for the Results/Discussion/Conclusion section
 - a. When stating the test results, make sure to link it to your final design.
 - b. When expanding on your milestone and setback, talk about the implications of what transpired.

Rubric

Criteria	Points
<u>Introduction / Background</u> <ul style="list-style-type: none"> • Team name, school/community group name, challenge(s), grade level (0.25 pts each, 1 pt total) • Quick overview of a challenge (1 pt) 	/2
<u>Hypothesis</u> <ul style="list-style-type: none"> • Describe one early brainstorming idea (1 pt) • Explain how this idea helps to solve the challenge (1 pt) 	/2
<u>Procedure / Methods</u> <ul style="list-style-type: none"> • Describe team member roles (1 pt) • Describe the robot's program (3 pts) • Use screenshots of code or flowchart (1 pt) • Describe how the robot was tested (2 pts) 	/7
<u>Results, Discussion, and Conclusion</u> <ul style="list-style-type: none"> • Summarize tests results (2 pts) • Expand on one milestone and one setback (2 pts) • Describe and explain one unique feature that is advantageous (2 pts) 	/6
<u>Other Presentation Criteria</u> <ul style="list-style-type: none"> • Clarity of presenters (2 pts) • Dispersion of presenters during presentation (2 pts) • Ability to answer questions from judges (3 pts) 	/7
<u>Display Criteria</u> <ul style="list-style-type: none"> • Effectively used to show team's work while presenting (3 pts) • Visual appeal, organization, and spelling and grammar (3 pts) 	/6
<u>Bonus</u> <ul style="list-style-type: none"> • Team cheer (1 pt) 	
TOTAL	/30