



SRC: LAUNCH PARTY
26-27



 **A note about this Competition Manual**

This Competition Manual receives ongoing updates (major and minor). Each published version is official and mandatory for all Sphero Robotics Competition events. New versions immediately supersede prior ones.

For any questions related to this Competition Manual, please email support@teamalliance.org.

Version History:

Version 1.0 - May 11, 2026 - initial release



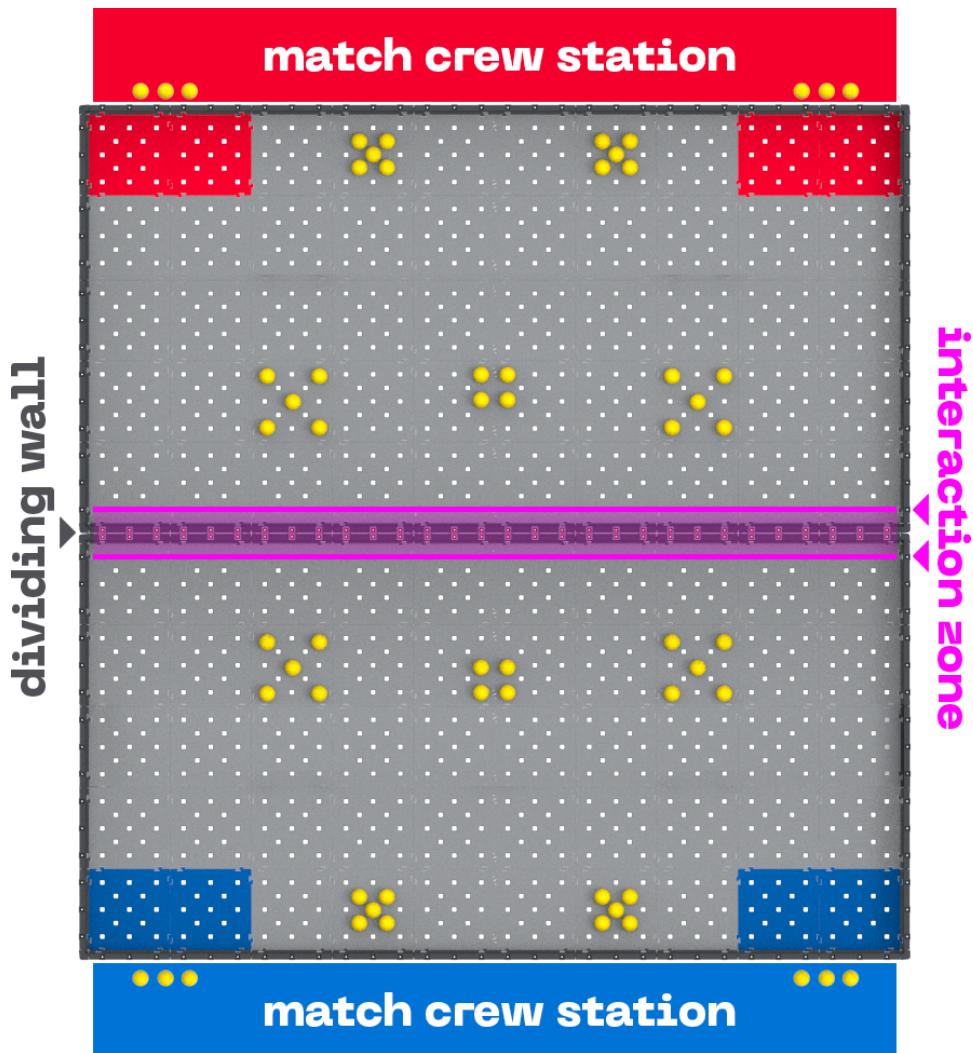
1 — What is SRC Launch Party?

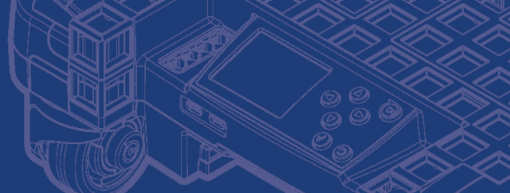
The Sphero Robotics Competition (SRC) Launch Party is an after-school robotics competition for **Students**. Two **Teams**, each running up to two **Robots**, face off on a shared field divided by a wall. Your job is simple: get as many **Balls** as possible onto your opponent's side before time runs out.

The twist? Every **Ball** still contained on your side when the **Match** ends counts against your **Team**. There's no sitting still — **Teams** that keep moving and launching **Balls** do better than **Teams** that wait.

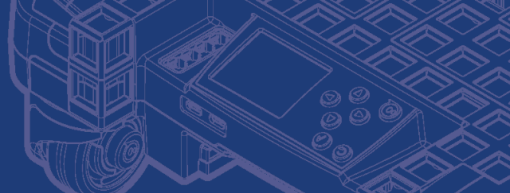
The Field at a Glance

The **Competition Field** is made up of 100 square tiles (each 300mm x 300mm), giving a total playing surface of approximately 3m x 3m. A 50mm-wide **Dividing Wall** runs across the middle. Each **Team** starts their **Robots** in their own **Starting Areas**. Both sides of the field have the same setup: **Balls** are placed on specific floor tiles, resting in the Blueprint Connectors of the tile, and some are **Preloaded** in **Robots**.





| Term | What it means |
|-----------------------------------|--|
| Ball | The spherical scoring object for SRC Launch Party |
| Coding Technology Trial | Also referred to as Coding Tech Trial . A Tech Trial completed by a single Team autonomously. |
| Competition Field | The 100 floor tiles (300mm x 300mm each), field walls, 50mm Dividing Wall , and Panels . |
| Disqualification | If an Infraction leads to a Team that caused the Infraction to win a Match , it becomes a Match affecting Disqualification . The Team receives a score of 0 for that Match . |
| Dividing Wall | The barrier running across the middle of the field. Robots may extend past the wall into the Interaction Zone , but they may not extend beyond the Interaction Zone . See LP-M12. |
| Match Crew | A group of Students who control Robots from behind the Competition Field boundary during the Match . Up to six (6) Students per Match Crew . |
| Endgame | The final 20 seconds of the Match . Special rules apply. See Section 6. |
| Field Element | Any element that is a part of the Competition Field . |
| Full Lift | A function of the Endgame that provides points based on Robot status. |
| Head Referee | The volunteer who oversees a Match or Technology Trial , enforces the rules, and makes final rulings on Robot interactions and gameplay. Their call is final during an event. |
| Heat | A set of Matches (typically two per Heat) that are run at an event. The event schedule is updated between Heats based on the event win-loss-tie record of the Teams . |
| Infraction | A Robot or Match Crew action that breaks a rule in this Competition Manual. |
| Interaction Zone | The 75mm area on either side of the Dividing Wall where Robot to Robot interaction is possible and allowed. |
| Match | 2-minutes of Team versus Team competition. Includes the 20-second Endgame . |
| Operating Technology Trial | Also referred to as Operating Tech Trial . A Tech Trial completed by a single Team using driver control. |
| Out of Play | A Ball that has left the Competition Field entirely. See LP-SC4. |
| Panels | A Field Element that is placed between the Dividing Wall and raises the Dividing Wall height to 375mm - Panels become part of the Dividing Wall . See Dividing Wall . |
| Partial Lift | A function of the Endgame that provides points based on Robot status |
| Preload | Balls touching a Robot before a Match begins. All six (6) Preload Balls must be touching a Team Robot . |
| Robot | A Blueprint Robotics Swerve Drive Robot and its attached mechanisms that are designed by Students . All Robots that pass inspection will be considered TEAM Ready for competition. |



| | |
|-------------------------|--|
| Scorekeeper | A volunteer who tracks Balls and scores each Match or Technology Trial . The Scorekeeper monitors the Competition Field , counts Balls at the end of a Match , determines lift status, and records the official result. They work alongside the Head Referee but do not make rulings on Robot interactions or gameplay. |
| Starting Area | The corners where each Robot begins. Robots must be touching both walls of its corner at the start of each Match . Only one Robot per Starting Area . |
| Student | Anyone born on or after September 1, 2007. |
| Team | A group of Students registered on myTEAMevents.org competing with up to two (2) Robots . |
| Team Coordinator | The adult who supports the Team . They help Students learn but do not design, build, code, or coach the Team . |
| TEAM Ready | A Robot that passes inspection at an event. See Section 7. |
| Technology Trial | Also referred to as Tech Trial . Tech Trials are 60 second additional challenges for Teams to complete individually. |
| Trial Stop Time | The amount of time left on the Technology Trial timer when a Team indicates to the Scorekeeper that they have completed the Technology Trial . |
| Warning | Occurs when a Team that causes an Infraction does not win a Match because of the Infraction . Multiple Warnings can lead to a Disqualification . |
| WLT Points | Win-Loss-Tie (WLT) Points are tracked at an event based on the results of a Team's Matches . After the first Heat , the event schedule for subsequent Heats is generated based on Teams with similar WLT Points . |
| | |

| Event Terms | What it means |
|----------------------------|--|
| In-Person Event | Events that are included as an option with In-Person Team registrations. These events allow a Team to run Team vs Team Match and Tech Trials at a location with other Teams . |
| Remote Event | Events that are included as an option with In-Person SRC Team registrations. These events allow a Team to run Tech Trials remotely with other Teams . |
| Prequalifying Event | An early season In-Person Event that does not qualify for a Championship Event (or any other event). An In-Person Team registration includes entry to one Prequalifying Event . |
| Qualifying Event | An In-Person Event that qualifies Teams for Championship Events . See Section 10. An In-Person Team registration includes entry into one Qualifying Event . |
| Championship Event | A state, regional, or national event that serves as the culminating competition for Teams that qualify through designated Qualifying Events . In the U.S., Championship Events are typically state-level, but may include multiple Championship Events within a single state or combining multiple states into a regional Championship Event . Internationally, regional or national Championship Events are used where geographic considerations apply. |



2 — How Scoring Works

The **Team** with the highest score at the end of the **Match** wins.

| Situation | Points |
|--|--------------------|
| Each Ball on opponent's side of the field at Match end | +1 per Ball |
| Each Ball still inside an opponent's Robot at Match end | +2 per Ball |
| Partial Lift during Endgame | + 5 |
| Full Lift during Endgame | + 15 |

Scoring Rules

LP-SC1 Scoring is calculated after the **Match** ends

Scores are counted five (5) seconds after the timer reaches 0:00, or once all **Balls** and **Robots** have stopped moving — whichever happens first.

LP-SC2 A **Ball** on a field tile at the end of the **Match**

A **Ball** gives +1 point to a **Team** if all of the following are true at the time of scoring:

- It is on the opponent's side of the **Dividing Wall**.
- It is touching a **Competition Field** tile.

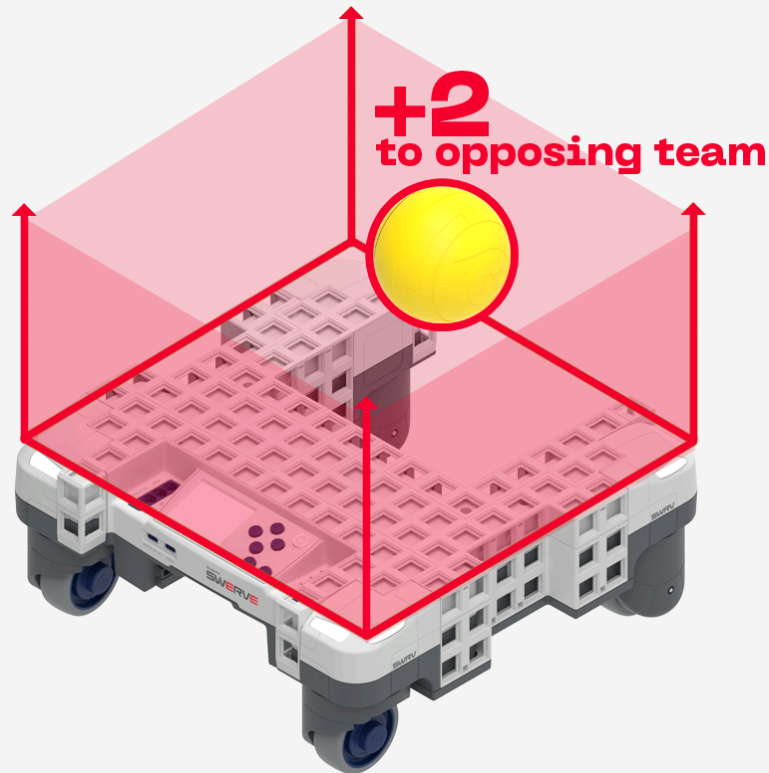
LP-SC3 A **Ball** inside a **Robot** at the end of the **Match**

A **Ball** gives +2 points to a **Team** if all of the following are true at the time of scoring:

- It is on the opponent's side of the **Dividing Wall**.
- It is inside, on, or held by an opponent **Robot**, and not touching a **Competition Field** tile.

Watch out

Don't possess **Balls** at the end of the **Match**. Launch everything you can.



LP-SC4 **Balls that leave the field come back to the Team that launched them**

If a **Ball** exits the **Competition Field** entirely, it is **Out of Play**.

- A volunteer retrieves the **Ball** and places it back into a **Starting Area** on the launching **Team's** side of the field.
- A **Ball** resting on top of the **Competition Field** (including the walls) without fully exiting is still in play and should only be touched by a **Robot**.
- Any **Balls** outside of the **Competition Field** at the end of the **Match** have to be returned to the appropriate **Starting Area** before scoring the **Match**

✓ **Tip for your Team**

Launching **Balls Out of Play** is not a safe strategy — the **Ball** comes right back to you, costing your **Team** time. Focus on getting **Balls** over the wall and onto your opponent's side of the **Competition Field** instead.

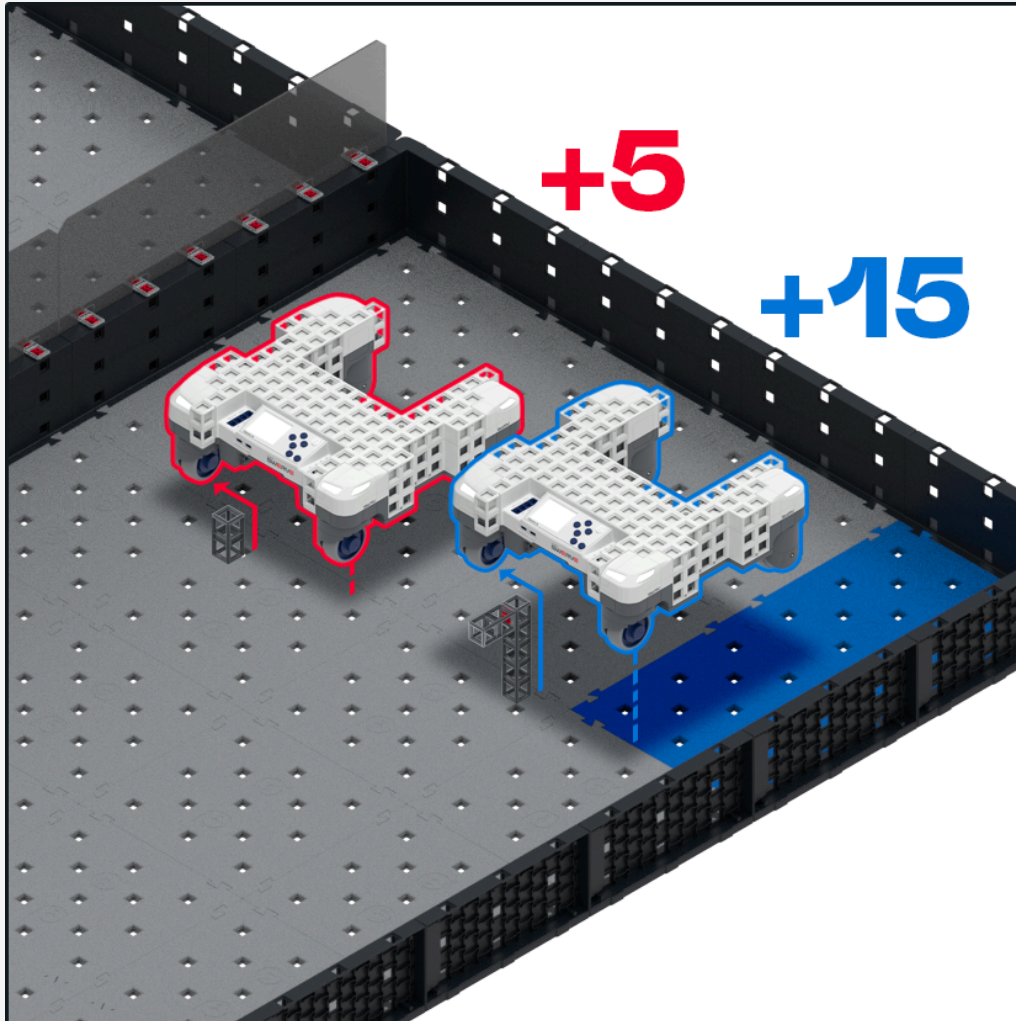
LP-SC5 **Lifting earns additional points**

During a **Match**, one **Robot** per **Team** can be lifted by its partner **Robot**. The lift must still be held at the 5-second scoring mark.

- **Partial Lift:** one (1) **Robot** is clearly raised off the **Competition Field**, but not entirely above the top of the lifting **Robot's** chassis. Worth +5 points.
- **Full Lift:** one (1) **Robot** is raised entirely above five (5) pitch (125 mm) height. Worth +15 points.
- Only one lift bonus is awarded per **Team** per **Match**.



- See LP-E2 for details





3 — Safety First

These rules exist to keep everyone safe. They apply to **Students**, Team Coordinators, Event Hosts, and anyone else at an SRC Event. Safety rules are not negotiable.

LP-S1 **Keep it safe at all times**

If a **Robot's** actions or a **Team's** behavior is unsafe at any point — before, during, or after a **Match** — the **Head Referee** can disable that **Robot** for the rest of the **Match** or remove the **Team** from the Event entirely. The **Robot** must pass re-inspection before it can compete again.

LP-S2 **Students need a Team Coordinator present**

Every **Student** at an SRC Event must have a responsible adult Team Coordinator or other responsible adult with them for the full duration of the Event.

LP-S3 **Stay behind the Competition Field boundary during Matches**

The **Match Crew** must stay behind the **Competition Field** perimeter boundary for the entire **Match**. The only exception is at the permission of the **Head Referee**. An example situation is if a **Team's Robot** has not yet moved in the **Match** and the **Match Crew** needs to interact with the **Robot** to get it started.

LP-S4 **Wear safety glasses at the Competition Field**

All of the **Match Crew** must wear safety glasses (or glasses with side shields) while standing at the field during a **Match**. We also strongly recommend safety glasses in pit and queuing areas.

LP-S5 **Waivers must be on file**

Every **Student** competing must be registered on myTEAMevents.org including having a **TEAM Alliance** Participation Waiver on file before they can take the field. No waiver, no play.



4 — How Everyone Should Act

Sphero Robotics Competition is a Student Powered program. That phrase means something specific: **Students** do the work. Team Coordinators support without doing. Everyone treats each other with respect.

LP-G1 Sphero Robotics Competitions are Student-Powered

Students design, build, code, strategize, and operate their own **Robots**. Team Coordinators can teach concepts, ask guiding questions, and help **Students** reflect on what went wrong — but they cannot make design decisions, write code, build mechanisms, or give strategy or instructions before, during, or after a **Match**.

If a referee asks a **Student** to explain how their **Robot** works, the **Student** should be able to answer.

Why this rule exists

A major goal of SRC is for **Students** to build real skills. When adults do the work, **Students** miss out on the experience that makes this competition valuable.

LP-G2 Code of Conduct – Treat everyone with respect

Every person at an SRC Event — **Students**, Team Coordinators, volunteers, referees, spectators — deserves to be treated with respect and must abide by the TEAM Alliance Code of Conduct. Rude, aggressive, or disrespectful behavior toward anyone can result in a **Team** being **Disqualified** or being asked to leave the event. This applies to **Students** and adults alike.

Tip for your Team

Winning is better when everyone is treated appropriately. Read the [TEAM Alliance Code of Conduct](#) for more information.

LP-G3 Your work should reflect your Team's own abilities

Your **Robot**, code, and strategy should come from the **Students** in your **Team**. You can get inspired by what you see other **Teams** doing, but your final **Robot** needs to be your own work — and you need to be able to explain it.

- Team Coordinators, parents, outside engineers, and **Students** from other **Teams** may not build, code, or design for you.
- If a referee asks you to walk them through your **Robot** or code, you should be ready to do that.

Watch out

If a student cannot explain how their **Robot** works to a referee or inspector, it may be considered an **Infraction** of this rule.



LP-G4 One Team per Student per season

Each **Student** can only compete for one SRC **Team** during a given competition season. A **Student** cannot split time between multiple **Teams' Robots** or code. Exceptions may be granted by TEAM Alliance for **Students** who need to switch **Teams** due to changing schools, unresolvable **Team** conflicts, or other non-strategic circumstances.

LP-G5 Use good judgment

These rules can't cover every possible situation. When something unusual happens that isn't explicitly addressed, the **Head Referee** will use the spirit of the rules to make a call. If an action would obviously be unsafe, unfair, or against the competition's values, it's probably not allowed even if it's not written down.



5 — Match Rules

These rules describe what’s allowed and not allowed during a **Match**. Read them before your first event so nothing surprises you on **Match** day.

Before the **Match** Starts

LP-M1 How to set up for a **Match**

Before each **Match**, every **Robot** must meet all of the following:

- The **Robot** passes inspection (see LP-R4 for dimensions).
- The **Robot** is touching both walls of its **Starting Area**.
- If more than one **Robot**, each **Robot** is in a different **Starting Area**
- The **Robot** is not touching any **Balls** except **Preload Balls** (see LP-M2).
- No part of the **Robot** is moving.

Watch out

If a **Robot** can’t meet these conditions in time, it may be held out of the **Match**. This isn’t a **Disqualification** — but the **Robot** won’t compete in that **Match**. A **Match** can be played with only one **Robot** on the **Competition Field**.

LP-M2 Preloading **Balls** before the **Match**

Each **Team** must start with six (6) **Balls** touching a **Robot**. A **Robot** with a loaded **Preload** must still fit within the starting size (see LP-R4).

During the **Match**

LP-M3 **Match Crew** must stay behind the **Competition Field** boundary

During the **Match**, the **Match Crew** must stay behind the **Competition Field** boundary across from the **Dividing Wall** the entire time. You can cheer, talk strategy with your other **Match Crew** members, and operate the **Robots** — but you cannot reach into the **Competition Field**, touch **Balls** on the **Competition Field**, or touch any **Field Element**. (See LP-S3)

- Up to six (6) **Match Crew** per **Team** may be present at the boundary.
- No communication devices (i.e. phones, radios, tablets) during the **Match**.
- Only **Match Crew** can give instructions during a **Match**.



LP-M4 Matches are for up to two *Robots* per *Team*

Robots (up to two) from your **Team** need to be at the **Competition Field** on time for every assigned **Match** on the event schedule. At the discretion of the **Head Referee**:

- If a **Team** has a scheduled **Match** and no operating **Robots** the **Team** can still obtain a score in the **Match** by having at least one (1) **Match Crew** member present at the scheduled start time of the **Match**.
- If a **Team** has a scheduled **Match** and no **Robots** or **Match Crew** members are present at the scheduled start time the **Team** receives a **Disqualification** for that **Match**.

LP-M5 No holding an opposing *Robot* for more than a 5-count

Your **Robot** cannot trap or pin an opposing **Robot** for more than five (5) seconds at a time.

- The **Head Referee** will initiate a verbal count when they see holding begin.
- After a hold ends, a **Robot** must remain one tile (300mm) away from the opposing **Robot** for at least 5 seconds before re-engaging.

Watch out

Repeated or intentional holding **Infractions** can result in a **Disqualification**, even if the **Infraction** isn't **Match** affecting. Do not make a strategy around holding.

LP-M6 Don't try to damage other *Robots*

Strategies specifically designed to overturn, entangle, or damage opposing **Robots** are not allowed. Contact is allowed in the **Interaction Zone**. Any **Robot** in the **Interaction Zone** takes the risk of contact with an opposing **Robot**.

- Defensive play that doesn't involve destructive moves is allowed.
- You are responsible for what your **Robot** does, including during autonomous routines.
- Overturning an opposing **Robot**, even if not intentional, is a **Disqualification** to the offending **Team**

LP-M7 You can't force your opponent into a penalty

If your **Robot** deliberately causes an opposing **Robot** to break a rule, the penalty will not be applied to them — it may be applied to you instead. Trap-setting or rule-bait strategies are not allowed.

LP-M8 Keep your *Robot* in one piece

Robots cannot intentionally release or drop parts during a **Match**. If a part falls off by accident, it's no longer considered part of the **Robot** and should be ignored for all scoring and contact rules. The **Head Referee** will decide if detachment was intentional.



LP-M9 Don't anchor your *Robot* to the field

Your *Robot* cannot hook, clamp, or latch onto any part of the *Competition Field* structure — the *Dividing Wall*, the field perimeter, or anything else. You can push against the *Competition Field* wall, but you can't grab it.

LP-M10 There is no *Robot* possession limit on *Balls*

There is no limit to how many *Balls* a *Robot* can carry at one time. Reminder: The opposing *Team* receives +2 points for every *Ball* still held in your *Robot* when the *Match* ends (LP-SC3).

Why this rule exists

We intentionally don't cap *Ball* possession. Strategic hoarding has a potential penalty through the scoring model.

LP-M11 *Robots* stay on their own side of the *Competition Field*

No part of your *Robot* may extend past the *Interaction Zone* boundary on your opponent's side of the *Competition Field*.

LP-M12 *Robot* expansion limits during the *Match*

Once the *Match* begins, your *Robot* cannot expand beyond its *TEAM Ready* inspection size (see LP-R4) and must stay within these limits until the *Endgame* (see Section 6) where all size limits are removed.

LP-M13 *Balls* that leave the *Competition Field* get put back

If a *Ball* flies over the *Competition Field* perimeter and exits the playing area, it's *Out of Play*. A volunteer retrieves the *Ball* and returns it to the nearest *Starting Area* on the launching *Team*'s side of the *Competition Field*. A *Ball* resting on top of the *Competition Field* perimeter (but not outside it) is still in play.



6 — The *Endgame* (Final 20 Seconds)

The *Endgame* begins when the *Match* timer hits 0:20. It's a chance for *Teams* to expand beyond the *TEAM Ready* inspection size.

LP-E1 Size limits are removed during the *Endgame*

When the *Endgame* starts, horizontal and vertical expansion limits no longer apply. Your *Robots* can extend to any size needed to attempt a lift or continue launching *Balls*.

- Your *Robots* still cannot cross the *Interaction Zone* boundary into the opponent's side (LP-M12 still applies).
- Your *Robots* still cannot anchor to the field (LP-M10 still applies).

Watch out

Expanding before the *Endgame* begins is an *Infraction*. If you expand early and it affects the *Match*, it may result in *Disqualification*.

LP-E2 One Robot per Team can attempt a lift

During the *Match*, one *Robot* can be lifted by its partner *Robot*. If the lift is still true when the *Match* ends (at the 5-second scoring mark), your *Team* earns bonus points (LP-SC5). During the *Endgame*, size limits are removed so this is a great time to make the attempt. Both *Robots* must be on the starting side of the *Competition Field* during the lift.

Tip for your Team

Practice your lift mechanism before competition day. Lift attempts during a real *Match* often take longer than expected, and you only have 20 seconds of *Endgame*.

LP-E3 Lift attempts are your own responsibility

It is the responsibility of the *Team* to prevent *Robots* from tipping over or becoming damaged while attempting a lift. Design your lift with stability in mind. The *Head Referee* will not grant a *Match* replay because a lift attempt went wrong.



LP-E4 **Robot operation must stop at the end of the *Match***

Robots may not be operated, or coded to operate, past the end of the ***Match*** (timer reaches 0:00).

✓ **Tip for your *Team***

Place your controller on the ground when the ***Match*** ends.



7 — Robot Rules

These rules define what makes a **TEAM Ready SRC Robot**. Read them before you start building. All **Robots** must pass inspection at each Event before they can compete.

LP-R1 Each Team brings up to two Robots to a Match

Your **Team** competes with up to 2 **Robots**. Both **Robots** must pass inspection. If one **Robot** fails inspection, it cannot compete until the issue is fixed.

- **Teams** may make changes to **Robots** between **Matches**.
- You cannot switch to a different **Robot** once it passes inspection unless the new **Robot** also passes inspection.
- Each **Team's Robots** must be unique to that **Team** — two **Teams** may not share a **Robot**.

LP-R2 Robots must be designed, built, coded, and operated by Students

Your **Robot** must be designed, built, coded, and operated by the **Students** in your **Team**. See LP-G1 and LP-G3 for the full Student Powered standard.

LP-R3 Robots must pass inspection before competing

Before your first **Match** at any Event, your **Robots** must go through **Robot** Inspection. This checks that your **Robots** meet all the rules in this Manual. A **Robot** that doesn't pass inspection can't compete until the issue is corrected.

- The **Head Referee** can request a spot inspection at any point during the event.
- Refusing a spot inspection results in **Disqualification**.
- Passing inspection at an event does not guarantee a **Robot** passes inspection at other events.

LP-R4 Robots must stay within inspection size until Endgame

During the entirety of the **Match**, not including the **Endgame**, your **Robot** must stay within these limits:

- No wider or longer than 20 pitch x 16 pitch (500mm x 400mm) in any horizontal direction.
- No taller than 22 pitch (550mm).

This is checked using the official TEAM Alliance Inspection Cube at the event.

✓ Tip for your Team

Measure your **Robot** at home before the Event. It's much easier to fix a size issue in your lab or classroom than in an inspection line at an Event.



LP-R5 Use the Sphero Blueprint Swerve Drive *Robot* as your base

All competing **Robots** must use the Sphero Blueprint Swerve Drive **Robot** as their drive and control base. **Students** can build additional mechanisms on top, but the drive system, control board, and battery must stay unmodified.

- Additional mechanisms (launchers, hoppers, lift arms, etc.) must be designed and built by **Students**.
- Mounting additional parts to the Sphero Blueprint Swerve Drive **Robot** is allowed — just don't modify the drive base itself.

LP-R6 Power sources

The standard Sphero Blueprint Swerve Drive **Robot** battery is your only power source. Your **Team** may not use any other power source for SRC.

LP-R7 Electronic & Motors

The only allowed electronics and motors are Sphero Blueprint Robotics Electronics. These include:

- Blueprint Robotics High-Speed Motor
- Blueprint Robotics High-Torque Motor
- Blueprint Robotics Beam Break Sensor
- Blueprint Robotics Distance Sensor
- Magnetic Proximity Switch

LP-R8 What's not allowed on a *Robot*

The following are never allowed on a competing **Robot**:

- Anything that could damage **Field Elements**, **Balls**, or other **Robots**.
- Anything that could easily snag or entangle with another **Robot** in a dangerous way.
- Exposed sharp edges or fasteners.
- Sound-producing devices used to distract opponents during a **Match**.
- Modifications to the Sphero Blueprint Swerve Drive system, control board, or electronics.

LP-R9 3D Printing is allowed

- 3D printed parts are allowed on your **Robot** in SRC. See LP-G1 and LP-G3 for the Student Powered requirements.



8 — Technology Trials

Technology Trials (Tech Trials) are additional challenges run separately from the **Matches**. They don't affect your **Match** results, but they can possibly factor into event awards and **Championship Event** qualification. Think of them as a chance to show off skills beyond **Team** versus **Team** competition.

There are two (2) types of **Tech Trials** at an event – **Operating Technology Trials** and **Coding Technology Trials**.

LP-T1 **Technology Trial score**

A **Team's Tech Trial** score is calculated by adding the top **Operating Tech Trial** score and the top **Coding Tech Trial**. A **Team's Tech Trial** score at a Qualifying Event is a **Championship Event** advancement criteria.

LP-T2 **Technology Trial count per event**

A **Team** may attempt a maximum of three (3) **Operating Tech Trial** runs and a maximum of three (3) **Coding Tech Trial** runs at a single event.

LP-T3 **Trial Stop Time**

Teams that complete the **Tech Trials** before the 60 second timer is expired can indicate to the Scorekeeper that they are done early.

- Scorekeeper records the **Trial Stop Time** – the amount of time remaining in the **Tech Trial** rounded down to the nearest second after all action has stopped.
- It's helpful to discuss with the Scorekeeper before the **Tech Trial** starts to share if your **Team** is likely to end the **Tech Trial** early and agree upon a signal to let them know when to mark the **Trial Stop Time**
- If the **Team** utilizes the full 60 seconds in the **Tech Trial**, then the **Trial Stop Time** is 0.

LP-T4 **Operating Technology Trial**

Can your **Team** clear the field? In this **Technology Trial**, the **Match Crew** controls up to two (2) **Robots** and has 60 seconds to launch as many **Balls** as possible over the **Dividing Wall**. There is no **Endgame** period for this Tech Trial as expansion is allowed throughout the entire **Tech Trial**.

| Setup | Details |
|---------------|--|
| Robots | Up to two (2) Robots |
| Field Setup | 54 Balls on the Competition Field + 6 Preload Balls touching the Robots per Team . Standard Dividing Wall . |



| | |
|------------|--|
| Time | 60 seconds, Match Crew control only. No Endgame period. Expansion allowed throughout the Tech Trial . LP-M13 does not apply. |
| How to win | Get as many Balls from your side of the Competition Field to the opponent's side in 60 seconds and complete an optional lift. Tie-breaker goes to the Team with the greater Trial Stop Time . |

LP-T5 **Coding Technology Trial**

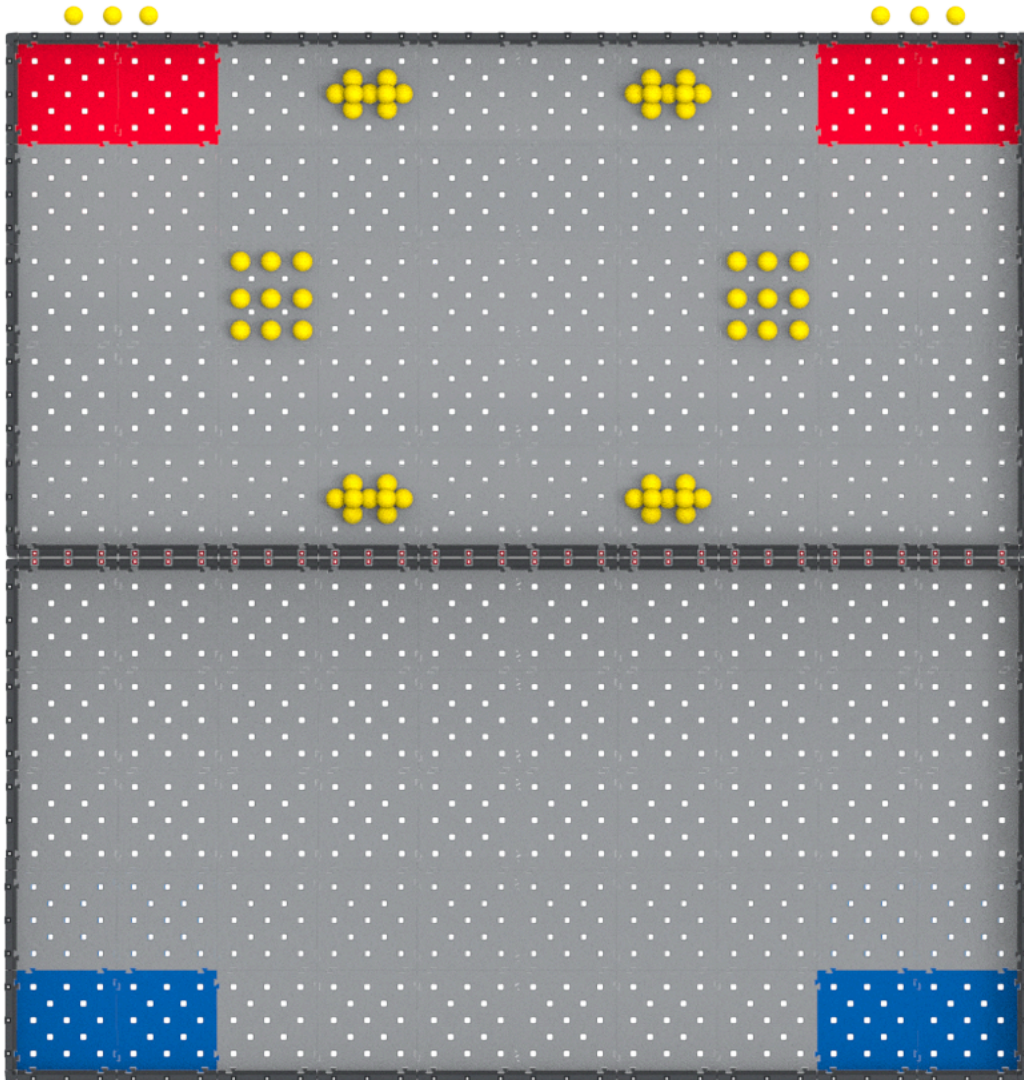
Can your **Team** do it with coding alone? In this **Technology Trial**, two (2) **Robots** must complete the same task as the **Operating Technology Trial** — moving as many **Balls** from one side of the **Competition Field** to the other — but entirely without **Match Crew** member input. No controllers, no remote operation. The **Robots** run fully autonomous for 60 seconds. There is no **Endgame** period for this Tech Trial as expansion is allowed throughout the entire **Tech Trial**.

| Setup | Details |
|---------------|--|
| Robots | Up to two (2) Robots |
| Field Setup | 54 Balls on the Competition Field + 6 Preload Balls touching the Robots per Team . Standard Dividing Wall . |
| Time | 60 seconds, autonomous only. No Match Crew control. No Endgame period. Expansion allowed throughout the Tech Trial . LP-M13 does not apply. |
| How to win | Get as many Balls from your side of the Competition Field to the opponent's side in 60 seconds and complete an optional lift. Tie-breaker goes to the Team with the greater Trial Stop Time . |



Tech Trials Field at a Glance

The **Competition Field** is made up of 100 square tiles (each 300mm x 300mm), giving a total playing surface of approximately 3m x 3m. A 50mm-wide **Dividing Wall** runs across the middle. Each **Team** starts their **Robots** in their own **Starting Areas**. Both sides of the field have the same setup: **Balls** are placed on specific floor tiles, resting in the Blueprint Connectors of the tile, and some are **Preloaded** in **Robots**.





9 — Event Schedule

This section explains the structure of a typical SRC event from start to finish. Whether you're a **Student** competing for the first time, a **Team Coordinator** preparing your **Team**, or an Event Host running the day — this is your overview.

LP-E1 Match format

SRC Launch Party is played in a **Team vs Team** format. Each **Team** brings up to two (2) **Robots** and faces one (1) other **Team**. The sequence of a standard SRC Launch Party **Match** from start to finish:

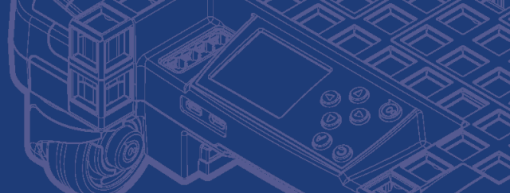
1. Both **Robots** are placed in their **Starting Area**, touching both walls, and are **TEAM Ready**.
2. **Preload Balls** (six (6) per **Team**) are touching a **Robot**.
3. The **Head Referee** confirms everything is set and starts the **Match**.
4. **Teams** drive their **Robots** for 2 minutes, pushing and launching **Balls** over the **Dividing Wall**.
5. **Teams** can attempt to lift one (1) **Robot** with the other **Robot**.
6. At the 20-second mark, the **Endgame** begins – expansion limits are lifted.
7. At 0:00, all action stops. **Balls** and lifts are counted 5 seconds later once everything comes to rest.
8. The **Team** with the highest score wins.

LP-E2 Event day structure

A standard SRC Launch Party Event is organised into **Heats**. Each **Heat** is a set of **Matches** (typically two **Matches** per **Team** per **Heat**) that are run at an event. The event schedule is updated between **Heats** based on **WLT Points** of the **Teams**. A set of **Technology Trials** is concurrently run with the **Matches**.

Example 20 **Team** Event:

| Phase | What happens |
|----------------|--|
| Heat Opens | 10 Team-vs-Team Matches are completed. Teams 1–10 compete in two (2) Team-vs-Team Matches while Teams 11–20 complete their first round of Technology Trials . |
| Mid-Heat Round | A second round of 10 Team-vs-Team Matches are completed. Teams 11–20 compete in the Team-vs-Team Matches while Teams 1–10 complete their first round of Technology Trials . |
| Break | A short break between Heats . Event staff generate the Match schedule to pair Teams for the next Heat based on win/loss record. |
| Repeat | The same structure repeats for each subsequent Heat . Pairings update after every Heat to reflect WLT Points . |



Finals bracket

After all **Heats** are complete, the top-ranked **Teams** advance to the finals bracket. Bracket size depends on the number of **Teams** at the **Event**. (See LP-E4).

LP-E3 Match scheduling

After each **Heat**, the event management software generates the next **Heat** schedule:

- **Teams** are matched against other **Teams** with similar **WLT Points**
- Rematches are avoided wherever possible
- No **Team** is eliminated during Qualifying **Matches** — every **Team** competes in every **Heat**
- **WLT Points** points are calculated by:
 - Win = 3 **WLT Points**
 - Tie = 1 **WLT Point**
 - Loss = 0 **WLT Points**
- If there is a tie in **WLP Points** placement is determined in the following order:
 - Highest **Match** score
 - Second-highest **Match** score
 - Highest **Technology Trials** score
 - Third-highest **Match** score
 - Randomized event system placement

LP-E4 Finals bracket

After all **Heats** are complete, the **Teams** with the most **WLP Points** (see LP-E3 for ties) advance to the finals bracket.

- Finals bracket size depends on how many **Teams** are at the event:
 - 32+ **Teams** at the event = 16 **Team** finals bracket
 - 24-31 **Teams** at the event = 12 **Team** finals bracket
 - Less than 23 **Teams** at the event = 8 **Team** finals bracket
- If there is a **Match** tie during the finals bracket, the **Match** is replayed until a winning **Team** is determined.

LP-E5 Referee Rulings

The **Head Referee** has the final ruling on all gameplay and **Robot** rulings during an event. If the **Match Crew** wants to question a call, they must stay in the boundary area and wait to speak directly with the **Head Referee** after the **Match**. Adults may not approach referees at any time during the event.

LP-E6 Awards

At Qualifying Events, at minimum the following awards are given:

Event winner — the **Team** that wins the last finals bracket **Match**

Top Tech Trials — the **Team** with the highest Technology Trials score



10 — Championship Event advancement criteria

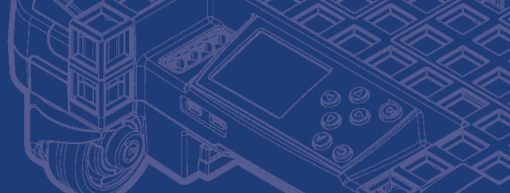
The **Champion Event** occurs at the end of the season. **Teams** must qualify to the **Champion Event** based on the following advancement criteria. The criteria is subject to the **Championship Event** capacity.

LP-CE1 **Champion Event advancement criteria**

Depending on the number of Qualifying Events in a state or region, the advancement criteria is:

- Qualifying Event winner - only **Team** guaranteed a **Championship Event** invitation
- **Technology Trials** highest score
- Qualifying Event finalist
- **Technology Trials** second highest score

Any remaining **Championship Event** invitations are distributed to **Teams** that have yet qualified. Invitations are based on the highest **Technology Trials** scores in the state or region until the event is full.



Quick Reference — All Rules at a Glance

Use this table to quickly find any rule in the manual.

| Section 2 – Scoring Rules | |
|-------------------------------------|---|
| LP-SC1 | Scoring is calculated 5 seconds after the Match ends |
| LP-SC2 | Each Ball on an opponent's Competition Field Tile = +1 point |
| LP-SC3 | Each Ball in an opponent's Robot = +2 point |
| LP-SC4 | Balls that leave the Competition Field are returned to a Starting Area of the Team that launched them |
| LP-SC5 | Lifting earns points: Partial Lift = +5, Full Lift = +15 points |
| Section 3 – Safety Rules | |
| LP-S1 | Keep it safe at all times |
| LP-S2 | Students need a Team Coordinator present |
| LP-S3 | Stay behind the Competition Field boundary during Matches |
| LP-S4 | Wear safety glasses at the Competition Field |
| LP-S5 | Waivers must be on file |
| Section 4 – How Everyone Should Act | |
| LP-G1 | Sphero Robotics Competitions are Student-Powered |
| LP-G2 | Code of Conduct – Treat everyone with respect |
| LP-G3 | Your work should reflect your Team's own abilities |
| LP-G4 | One Team per Student per season |
| LP-G5 | Use good judgment |
| Section 5 – Match Rules | |
| LP-M1 | How to set up for a Match |
| LP-M2 | Preloading Balls before the Match |
| LP-M3 | Match Crew must stay behind the Competition Field boundary |
| LP-M4 | Matches are for up to two Robots per Team |
| LP-M5 | No holding an opposing Robot for more than a 5-count |
| LP-M6 | Don't try to damage other Robots |
| LP-M7 | You can't force your opponent into a penalty |
| LP-M8 | Keep your Robot in one piece |
| LP-M9 | Don't anchor your Robot to the field |
| LP-M10 | There is no Robot possession limit on Balls |
| LP-M11 | Robots stay on their own side of the Competition Field |
| LP-M12 | Robot expansion limits during the Match |



| | |
|---|---|
| LP-M13 | Balls that leave the Competition Field get put back |
| Section 6 – Endgame Rules | |
| LP-E1 | Size limits are removed during the Endgame |
| LP-E2 | One Robot per Team can attempt a lift |
| LP-E3 | Lift attempts are your own responsibility |
| LP-E4 | Robot operation must stop at the end of the Match |
| Section 7 – Robot Rules | |
| LP-R1 | Each Team brings up to two Robots to a Match |
| LP-R2 | Robots must be designed, built, coded, and operated by Students |
| LP-R3 | Robots must pass inspection before competing |
| LP-R4 | Robots must stay within inspection size until Endgame |
| LP-R5 | Use the Sphero Blueprint Swerve Drive Robot as your base |
| LP-R6 | Power sources rules |
| LP-R7 | Electronic & Motors |
| LP-R8 | What's not allowed on a Robot |
| LP-R9 | 3D Printing is allowed |
| Section 8 – Technology Trials | |
| LP-T1 | Technology Trial score calculation |
| LP-T2 | Technology Trial count per event |
| LP-T3 | Trial Stop Time |
| LP-T4 | Operating Technology Trial |
| LP-T5 | Coding Technology Trial |
| Section 9 – Event Schedule | |
| LP-E1 | Match format |
| LP-E2 | Event day structure |
| LP-E3 | Match scheduling |
| LP-E4 | Finals bracket |
| LP-E5 | Referee Rulings |
| LP-E6 | Awards |
| Section 10 – Championship Event advancement criteria | |
| LP-CE1 | Championship Event advancement criteria |