



**SINGAPORE SCHOOLS SPORTS COUNCIL
BOWLING RULES AND REGULATIONS FOR
NATIONAL SCHOOL GAMES 2024**

(Updated as of 28 February 2024)

SINGAPORE SCHOOLS SPORTS COUNCIL
GENERAL RULES AND REGULATIONS FOR NATIONAL SCHOOL GAMES 2024

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PREAMBLE

This document outlines the rules and regulations for the conduct of and participation in the National School Games (NSG). These rules and regulations should be interpreted and implemented in alignment to the spirit of the SSSC's Mission, Aspirations and Motto (**Refer to [Annex A](#)**).

SECTION A – ADMINISTRATIVE RULES AND REGULATIONS

1. ORGANISATION STRUCTURE AND GOVERNING BODIES

1.1 The National School Games (NSG) shall be conducted:

- 1.1.1 as governed by the General Rules and Regulations of the Singapore Schools Sports Council (SSSC).
- 1.1.2 according to the sport-specific rules and regulations that are modified to suit the level of our school students for safety / developmental reasons.
- 1.1.3 adhering to the Baseline Safety Standards for the NSG.
- 1.1.4 according to the laws / rules established by the respective International Federations (IFs) / governing bodies.

1.2 National School Games Organising Committee (NSGOC)

1.2.1 The NSGOC shall consist of the following:

- a) Lead Convenor
- b) Convenors
- c) Lead Organising Secretary
- d) Organising Secretaries
- e) Game Advisor
- f) Game Manager / Game Executive
- g) Technical Committee
- h) Any other co-opted members deemed necessary

1.2.2 The NSGOCs are empowered to appoint sub-committees and individual members to assist in the organisation and running of the NSG competitions as and when required.

1.2.3 The NSGOCs shall have sub-committees to perform the following roles and responsibilities (**Refer to [Annex B](#)**): -

- a) Competitions: Organise and conduct the competition according to the rules and regulations, and established safety standards.
- b) Technical: Establish, review and update competition rules and regulations for the competitions and other matters necessary to provide for safe and developmentally appropriate NSG competitions.
- c) Recognition, Protest and Discipline: Manage recognition and discipline structures to support the desired outcomes of the NSG.
- d) Other functions necessary for the successful completion of the NSG sport that the NSGOC is in charge of.

2 AGE GROUPS / DIVISIONS/ NSG SPORTS CATEGORIES

- 2.1 All students shall compete in their respective divisions according to their year of birth* as follows:

| | |
|---------------|--|
| 'A' Division* | 1 Jan 2004 (<i>subject to conditions laid out in para 2.2</i>) |
| | 2 Jan 2004 - 31 Dec 2004 |
| | 1 Jan 2005 - 31 Dec 2005 |
| | 1 Jan 2006 - 31 Dec 2006 |
| | 1 Jan 2007 - 31 Dec 2007 |
| | 1 Jan 2008 |
| 'B' Division* | 1 Jan 2007 (<i>subject to conditions laid out in para 2.2</i>) |
| | 2 Jan 2007 - 31 Dec 2007 |
| | 1 Jan 2008 - 31 Dec 2008 |
| | 1 Jan 2009 - 31 Dec 2009 |
| | 1 Jan 2010 |
| 'C' Division* | 1 Jan 2010 (<i>subject to conditions laid out in para 2.2</i>) |
| | 2 Jan 2010 - 31 Dec 2010 |
| | 1 Jan 2011 - 31 Dec 2011 |
| | 1 Jan 2012 |

*** Subject to the following conditions:**

- All students in the Junior Colleges (JC) and Millennia Institute (MI) must compete in the 'A' Division.
 - Year 1 to Year 4 students in the Integrated Programme (i.e., Through-Train Programme) and International Baccalaureate Programme will compete in their respective age group. Those in Year 5 (equivalent to JC 1) and Year 6 (equivalent to JC 2) must compete in the 'A' Division.
 - All students in Secondary Schools must compete in the 'B' or 'C' Division according to their year of birth.
 - All students in Secondary Schools not born in the stipulated year for 'B' or 'C' Division must compete in the 'A' Division.
- 2.1.1 With effect from 2021, students who are born on 1 January and have participated in NSG previously shall follow the rules stated in Para 2.2. This rule will supersede all previous decisions.
- 2.1.2 This exception in Para 2.2 does not apply to students who are born on 1 January and have repeated a year of study.
- 2.2 All students can only be registered in one division of that particular sport within the same year.
- 2.3 Categories of NSG Sports
- 2.3.1 [Bowling is categorised as Event-based sport.](#)

3. ENTRIES

- 3.1 Each school is eligible to register 1 to 16 participants per division per sex.
- 3.2 SPED school students may participate in the mainstream competitions i.e. 'A', 'B', 'C' Divisions.

4. REGISTRATION OF PARTICIPANTS

4.1 Eligibility

- 4.1.1 Only official students of the school can represent the school.
- 4.1.2 Students requesting for a transfer may only represent their new school when the transfer has been officially effected.
- 4.1.3 International students can only be registered to compete for their school **after** they have been issued with the student passes from the Immigration and Checkpoints Authority (ICA).
- 4.1.4 Students who are in the schools on exchange programmes are not allowed to represent the school.
- 4.1.5 Students granted Leave of Absence (LOA) by MOE are allowed to represent the school.
- 4.1.6 Students who have qualified for the Polytechnic Foundation Programme (PFP) can represent their school only up till 31 January of the competition year.
- 4.1.7 Registration constitutes representation, that is, once a student is registered to compete for a school, he or she is deemed to have represented his or her school. Hence, the student is not allowed to represent another school in the same sport in the same year.
- 4.1.8 The fielding of unregistered players will result in a forfeiture of the matches / events concerned (**Refer to [Para. 10](#)**).

4.2 Registration Process

- 4.2.1 All registration must be submitted through the NSG Integrated system (NIS) Registration Module at <https://nsg.moe.edu.sg/nis/#!/login> by the stipulated closing date. This includes details of participants along with the necessary supporting documents including:
 - a) Baseline Safety Standards Acknowledgement Form
 - b) Supporting documents for Special / Transfer case students
 - c) Other forms as determined by the respective NSGOCs
- 4.2.2 The registration, briefing and competition dates are indicated in the table below:

**NEW: 'B' Division
Competition Dates
Extension to 8 Apr 2024**

| Division | Registration Start Date | Registration End Date | Briefing Date | Competition Dates |
|----------|-------------------------|-----------------------|---------------|--------------------------|
| 'A' | 1-Feb-24 | 4-Mar-24 | 22-Mar-24 | 15 Apr – 22 Apr 24 |
| 'B' | 1-Feb-24 | 16-Feb-24 | 28-Feb-24 | 25 Mar - 8 Apr 24 |
| 'C' | 6-May-24 | 20-May-24 | 26-Jun-24 | 15 Jul – 26 Jul 24 |

- 4.2.3 Any late or amendments to the registration after the closing date must be sent via email through the Principal to the Lead Convenor **1 working day before issue of the lane assignment**.

4.3 Replacement and addition of participants

- 4.3.1 Replacement of a registered participant is only allowed when that participant is no longer an official student of the school and if the school has maximised their registration numbers.
- 4.3.2 Addition of participants is only allowed for students who have joined the school after registration has closed and if schools have not maximised their registration numbers.
- 4.3.3 Any request for replacement (Para. 4.3.1) or addition (Para. 4.3.2) after registration has closed, must be sent via email through the Principal to the Lead Convenor **1 working day before issue of the lane assignment**.
- 4.3.4 A participant who has already started in an event will not be allowed to be replaced.
 - a) **Quartets event will take 2 days to complete. No replacement is allowed for day-2 event. A pacer will be activated.**

SECTION B – COMPETITION RULES & REGULATIONS

5. COMPETITION FORMAT (Refer to [Annex C](#))

5.1 All sports competition formats shall be that as approved by the SSSC's Standing Committee and stated in the specific sport's rules and regulations.

5.2 [Bowling competition is organised in direct national formats.](#)

5.3 For a competition / event to be organised:

5.3.1 There must be a minimum of three (3) registered teams from three (3) different schools for Team Sports.

5.3.2 There must be a minimum of three (3) registered participants from two (2) different schools for Individual Sports.

5.4 Events

5.4.1 The following three (3) events will be contested in the 'A', 'B' and 'C' Divisions:

| Categories | No of Game Series |
|------------|-------------------------------|
| Singles | 6 Games Series per individual |
| Doubles | |
| Quartets | |

5.4.2 Participants may only compete in the event/s if they met the required number of participants.

5.4.3 Each school may send in a maximum of 16 participants for Singles, 6 pairs of Doubles and 3 teams of Quartets.

a) All participants will compete in the Singles event.

b) The table below illustrates the number of Doubles and Quartets teams based on the number of registered participants:

| No. of registered participants | No. of Doubles Teams | No. of Quartets Teams |
|--------------------------------|----------------------|-----------------------|
| 1 | 0 | 0 |
| 2 - 3 | 1 | 0 |
| 4 - 7 | 2 | 1 |
| 8 - 11 | 4 | 2 |
| 12 - 16 | 6 | 3 |

5.5 Seeding

5.5.1 The preceding year's results shall be used for seeding in the first round of all competition formats.

5.5.2 There will be one seeded squad for each sex per division.

5.5.3 The top 4 teams will be allocated to the Seeded Squads.

a) If one of the seeded teams is unable to submit 3 Quartets, they may not be placed in the seeded Squad.

5.5.4 Seeded Squad will be scheduled last for each event.

- 5.6 Lane Allocation
- 5.6.1 Lane assignments shall be determined by drawing of lots.
 - 5.6.2 There will be no pacer arranged for the Singles event.
 - 5.6.3 For Doubles and Quartets events, the number of participants scheduled per squad must be consistent throughout the tournament. Pacer/s will be arranged for Doubles and Quartets events if required.
 - 5.6.4 There will be one lane rotation for the Singles and Doubles events after the 3rd Game.
- 5.7 Competition Area
- 5.7.1 For each sex, schools with less than eight (8) participants from the participating school are allowed to have one (1) Team Manager (TM) or coach present with the participants in the competition area.
If there is more than one coach, TM may make arrangements for the coaches to take turns to enter the competition area.
 - 5.7.2 For each sex, schools with eight (8) or more participants are allowed to have two (2) Team Manager (TM) or coaches present in the competition area.
- 5.8 Error in Scoring and Fouls during the games
- 5.8.1 Participant shall inform the Lane Marshals / NSGOC if there is any error in the scoring immediately.
 - 5.8.2 Participant shall clarify the fouls with the Lane Marshal before the delivery of the next ball. No protest will be allowed after the participant has made his / her second delivery of the frame.
- 5.9 Verification of Scores
- 5.9.1 Each school shall verify the results on the NSG website (<https://nsg.moe.edu.sg>) and notify the NSGOC before 0900hrs the next working day.
 - 5.9.2 It is the onus and responsibility of each participant to ensure that the correct score is recorded accurately.

6. AWARD

- 6.1 For each event, the total pinfalls of 6 games series will be used to tabulate the result of the participants / teams.
- 6.2 The winner for the event will be the participant / team with the highest total pinfalls.
- 6.3 Tie-break for event
- 6.3.1 For a tie between two or more participants / teams, the tie shall be resolved as approved by the SSSC's Standing Committee and stated in the specific sport's rules and regulations.
 - 6.3.2 In the event of a tie for Singles Event,
 - a) the participant with the highest game shall win the tie break.
 - b) If this still ends in a tie, the next highest game will be used and this shall continue until the tie is broken.
 - c) If the tie cannot be broken, the participants will be declared as joint winners.
 - 6.3.3 In the event of a tie for Doubles and Quartets Events,
 - a) the team with the highest team score* shall win the tie break.
 - b) If this still ends in a tie, the next highest team score* will be used and this shall continue until the tie is broken.
 - c) If the tie cannot be broken, the teams will be declared as joint winners.

*Team score is the total score of participants per game

6.4 The prizes will be awarded for the following events:

| Event | Positions Awarded |
|----------|---|
| Singles | 1 st , 2 nd , 3 rd and 4 th |
| Doubles | |
| Quartets | |

7. DIVISIONAL AWARDS

7.1 Divisional Awards

7.1.1 There should be only one (1) Divisional Title¹ per division / sex for Bowling.

7.1.2 The number of divisional trophies to be awarded shall be as follows:

| No. of Participants / Teams | Positions Awarded |
|-----------------------------|-------------------|
| 3 to 4 | 2 |
| 5 to 6 | 3 |
| 7 or more | 4 |

7.1.3 No individual award will be given to each participant.

a) Top 4 positions shall be awarded per division per sex.

b) Each school registers a minimum of 4 participants to qualify for the Divisional Title.

i) The results for 3 events will be considered for tabulation of the Divisional Title.

ii) School's Pinfalls is the summation of the total pinfalls of top 4 Singles, top 2 Doubles and top Quartets.

iii) The winner will be the school with the highest school's pinfalls.

7.1.4 Tie-break for Divisional Title

a) If there is a tie in total pinfalls, we shall consider the total pinfalls of top 2 Doubles and top Quartets. The winner will be the team with the highest total pinfalls of the 2 events.

b) If the tie continues, we shall consider the total pinfalls of Top Quartets. The winner will be the team with the highest total pinfalls.

c) If the tie still continues, joint winners shall be declared.

7.2 The number of prizes to be awarded for Direct National Competitions shall be as follows:

| No. of Participants / Teams | Positions Awarded |
|-----------------------------|-------------------|
| 3 | 2 |
| 4 | 3 |
| 5 or more | 4 |

7.2.1 Divisional Awards will be given to top 4 schools per division per sex.

8. REPORTING AND GRACE PERIOD

8.1 Participants are to report punctually according to the time stated by the NSGOC.

8.1.1 All participants are required to report at least half an hour before the start of their event.

8.1.2 Participants have to be accompanied by the Team Manager (TM) at the point of registration.

¹ Only events with a minimum of three (3) competitors from three (3) different schools will contribute to the calculation for Divisional Titles.

- 8.2 Participants who are unable to report on time, must inform the NSGOC or their representatives at the competition venue of the delay. Where applicable, specific sports can allow for a grace period of fifteen (15) minutes. The NSGOC may extend this grace period if deemed justifiable.

9. POSTPONEMENT AND ABANDONMENT

- 9.1 Any postponement or abandonment² of a match / event shall be determined by the NSGOC only.

9.2 Interruption of the game

9.2.1 Change of lanes in the same squad

- a) If a pair of lanes become unsuitable before or during the squad that would delay the normal progress of the squad as determined by organising committee, any available pair of lanes provided by the bowling centre shall be assigned to affected participant(s). No practice throws shall be allowed on the new lanes once the game has commenced.

9.2.2 Postponement to next available squad

- a) In the event that the game is postponed to the next available squad, participants will be given the same amount of practice time as accorded to the rest of the squad.
- b) Any interrupted game(s) must resume from the point (frame) of interruption and the score stands as bowled.

9.2.3 Re-bowl

- a) In the event that the score of any game is lost and cannot be retrieved, the participant concerned maybe required to re-bowl a new game. However, all scores of completed games that have been recorded in the official score sheet shall remain unchanged.

10. WITHDRAWAL AND FORFEITURE

- 10.1 Any withdrawal³ or forfeiture⁴ can be considered contrary to the spirit of the NSG and can result in a walkover when the fixtures / competition schedule has been issued.

- 10.1.1 In the event that the withdrawal causes unevenness in the fixtures / competition, the NSGOC may conduct a full / partial re-draw.

- 10.2 For each withdrawal or forfeiture, a written explanation duly endorsed by the Principal shall be submitted to the Lead Convenor and copied to the Game Advisor within one (1) working day.

- 10.3 For withdrawals, all results involving the team / participant will be null & void.

- 10.4 For forfeitures, the team / participant will concede a walkover and the results of an event shall be **tabulated based on the completed frames.**

² Abandonement refers to any match / event that started but cannot reach a natural conclusion and may be postponed or cancelled.

³ Withdrawal refers to discontinuing participation in the competition.

⁴ Forfeiture refers to inability to start or complete a match / event.

11. WALKOUT⁵

- 11.1 Staging a walkout is considered a serious breach of conduct and contrary to the spirit of NSG.
- 11.2 Participants that stage a walkout shall be subject to disciplinary action (**Refer to [Para 19](#)**).
- 11.3 A written explanation from the school(s) duly endorsed by the Principal shall be submitted to the Lead Convenor and copied to the Game Advisor within one (1) working day.
- 11.4 The competition officials shall submit a written report to the NSGOC within one (1) working day.

12. CLARIFICATION AND PROTEST

- 12.1 Clarification
 - 12.1.1 Team Managers (TMs) are allowed to seek clarification with the competition officials / NSGOC during intervals or appropriate times as stated in the sport-specific rules. Upon completion of clarification, the event shall proceed based on the decision of the competition officials / NSGOC.
 - 12.1.2 If the clarification were to result in any disruption / interference of the competition, the matter shall be brought to the attention of the NSGOC for follow up action.
- 12.2 Competing Under Protest
 - 12.2.1 If the TM has strong justification against the decision of the competition officials / NSGOC, the TM shall indicate their intention to compete under protest to the NSGOC or their representatives, who will inform all Competition officials and TMs involved in the affected event. This shall be done as soon as possible without disrupting the competition.
 - 12.2.2 Any competition under protest and / or intent to lodge an official protest shall be officially recorded according to the sport-specific rules and regulations.
- 12.3 Protest
 - 12.3.1 Following from Para. 12.2, the TM concerned may submit an official protest to the NSGOC via email. The protest must fulfil all the following conditions:
 - a) Be sent through the Principal.
 - b) Reach the NSGOC within one (1) working day after the event unless stipulated otherwise in the respective sport-specific rules.
 - c) Provide reasons and evidence for the protest.
 - d) Meets the requirements as stated in Para. 12.2.2.
 - 12.3.2 Protests based solely on a decision involving the accuracy of judgement on the part of an umpire / referee / judge shall not be considered by the NSGOC.
 - 12.3.3 A protest panel chaired by a Convenor will be formed within the NSGOC to deliberate on protests that have met all conditions in 12.3.1. Where there may be potential conflict of interest, the schools involved will not sit in the panel.
 - 12.3.4 The decision of the protest panel will be made known in writing to the schools concerned within five (5) working days.
 - 12.3.5 A protest fee of \$150 will be paid by the school that raised the protest (within 30 days from notification of outcome) if the protest is overruled.

⁵ Wilful refusal to compete against the NSGOC's advice.

13. APPEAL

- 13.1 Schools may appeal against the outcome of a protest to the Council. The appeal must fulfil all the following conditions:
- a) Be sent through the Principal.
 - b) Reaches the respective Honorary Secretary for zonal competitions, or Secretariat of the main council for national competitions within two (2) working days upon receiving the protest sub-committee's decision.
 - c) Provides reasons and evidence for the appeal.
- 13.2 The Board of Appeal (BoA) will be convened to deliberate on the appeal within ten (10) working days. Where there may be potential conflict of interest, the schools involved will not sit in the BoA. The decision of the BoA shall be final.
- 13.3 An appeal fee of \$300 will be paid by the schools that raised the appeal (within 30 days from notification of outcome) if the appeal is overruled.

14. BARRED PARTICIPANTS

- 14.1 Participants barred by any one of the following bodies are not allowed to participate in the NSG for that sport:
- a) School
 - b) Singapore Schools Sports Council (SSSC)
 - c) National Federation (NF) of the sport, with endorsement from SSSC

15. TEAM MANAGER (TM)

- 15.1 The Team Manager (TM) will represent the school on all matters pertaining to the duty of care, student management and competition matters relating to the participants / teams from his / her school (**Refer to [Annex E](#)**).
- 15.2 Participants / teams must be accompanied by a TM who shall remain with the team throughout the duration of play. The absence of a TM will result in a forfeiture of the events concerned (**Refer to [Para. 10](#)**).
- 15.3 The TM shall be a school staff⁶ or School Adult Representative (SAR) (**Refer to [Annex F](#)**) appointed by the participating school.
- 15.4 TMs are expected to conduct themselves with decorum at all times and strive towards Aspiration 2 (**Refer to [Annex A](#)**).
- 15.5 TMs must ensure that their coaches adhere to the rules and regulations and the Code of Conduct (**Refer to [Annex G](#)**).

16. COACHES

- 16.1 Coaches are expected to conduct themselves with decorum in alignment to the Code of Conduct (**Refer to [Annex G](#)**) and strive towards Aspiration 2 at all times (**Refer to [Annex A](#)**).
- 16.2 Coaches are not allowed to approach the officials to query their decisions. Only TMs are allowed to approach officials to seek clarifications.
- 16.3 Provision is given to schools that registered less than four (4) participants to bring their private coaches to the NSG competition venue.
- 16.4 Coach must be a registered coach in one of the followings:
- a) SportSG National Registry of Coaches (NROC) or
 - b) Singapore Bowling Federation (SBF) Registry of Active Coaches (ROAC) or
 - c) SBF Registry of Coaches (ROC)

⁶ MOE employed staff such as Education Officer, Contract Adjunct, Flexi Adjunct, EAS (AM, OM and CSO) and AED.

17. COMPETITION OFFICIALS

- 17.1 Competition officials (E.g., lane marshals, result officials) should declare any potential conflict of interest to the NSGOC before the start of the competition.

18. SPECTATORS

- 18.1 Participating schools must ensure that spectators from their school attending the competitions are aligned to Aspiration 5 (**Refer to [Annex A](#)**) and cooperate with the officials.
- 18.2 Schools sending spectators to the competition shall ensure that their students are in proper school attire and that there are sufficient teachers present to be responsible for their management and well-being.
- 18.3 Spectators may not be allowed to enter the competition venue if they fail to comply with the venue's SOP.
- 18.4 All spectators should remain within their stipulated area throughout the competition and are not allowed to interfere with competition proceedings.
- 18.5 In the event of disruptive or unsportsmanlike behaviour, the NSGOC or its representatives may at their discretion, stop the disturbance and evict the spectators from the competition venue.
- 18.6 Due to the holding capacity of the bowling centre, each school is allowed to bring a maximum of 25 spectators.

19. SERIOUS BREACH OF CONDUCT

- 19.1 A Disciplinary Panel comprising members of the NSGOC will be formed to investigate the breach.
- 19.1.1 A convenor of the NSGOC shall be appointed as the Chairperson of the panel.
- 19.1.2 The panel may co-opt members from outside the NSGOC, including personnel from the National Federation (NF) to provide technical advice where necessary.
- 19.2 Any individual found guilty of serious breaches of conduct, such as an attempt to inflict, or has inflicted physical harm, or the threat of such on another person, shall be expelled from the NSG, and be banned from it for the calendar year of the NSG. The disciplinary panel can also recommend punishment beyond the calendar year if the breach occurs during the final stages of the competition. This shall also apply to all such behaviours traced to an NSG competition before, during or after the competition.
- 19.3 An appeal against the decision of the Disciplinary Panel can be submitted by the school (for participants, coaches, and TMs) and / or the official to the Council, whose decision shall be final (**Refer to [Para. 13](#)**).

20. ATTIRE

- 20.1 All participants must be in suitable attire bearing the school crest / name where possible and in accordance with the sport-specific rules and regulations.
- 20.1.1 All participants in the team will have to be similarly attired.
- 20.1.2 No different coloured pants / shorts will be allowed.
- 20.1.3 Denim-material, cargo pants or cargo shorts of any kind will not be permitted.
- 20.2 If in the opinion of the NSGOC a participant is not appropriately dressed, he / she may not be permitted to bowl.

21. GAMES FORMAT

21.1 Style of Play

- 21.1.1 Each game shall be bowled on a pair of lanes. Participants shall successively and in regular order bowl one frame on one lane and the next frame (alternate) on the next adjoining lane, hence alternating between the lanes until 5 frames are bowled on each lane, thus completing the game. When any question arises as to which of the 2 participants shall bowl first, the participant on the right will do so.
- 21.1.2 Each team shall bowl on a pair of lanes for all the events.

21.2 Order of Bowling

- 21.2.1 The order of bowling will be as per submission in the e-Registration portal (NIS) unless prior approval has been given by the NSGOC.
 - a) The Singles Line-up will be based on the list submitted in the NIS during the registration.
 - b) Schools need not pre-register Quartets formation. For Doubles and Quartets events, schools may decide the team formation after the Singles and Doubles events respectively
- 21.2.2 Submission of Line-up forms
 - a) The Doubles Line-up Form must be submitted half an hour after the completion of their Singles event.
 - b) The Quartets Line-up Form must be submitted half an hour after the completion of their Doubles event.
 - c) A nil submission is required.
 - d) No amendments to the line-up order will be allowed after submission is endorsed by game official.

21.3 Slow Bowling

- 21.3.1 Slow bowling is strictly not allowed and participants must bowl when it is their turn to do so.
- 21.3.2 Participant preparing to step on the approach and deliver a ball shall have the following rights and obligations:
 - a) They may claim right of way only over a participant moving to the approach or preparing to bowl on the lane immediately to their left.
 - b) They shall give way to any participant who is moving towards the approach or preparing to bowl on the lane immediately to their right.
 - c) They must be ready to bowl when it is their turn and shall not delay the start of their approach or delivery if the lane immediately adjacent to them on both the right and left are clear.
 - d) The Lane Marshal / **NSGOC** on duty shall specifically monitor any participant or team that gets more than four (4) frames behind the 2nd last participant / team in a Singles or Doubles event, or more than two (2) frames behind the 2nd last team in Quartets event.
- 21.3.3 If a participant does not observe the procedures, it may be construed as slow bowling. A participant failing to observe these procedures shall be warned by a competition official as follows:
 - a) A white card for the first offense (no penalty).
 - b) A yellow card for the second offense (no penalty).
 - c) A red card for the third and each succeeding offense in any block of games (All games played in a day: six games series for Singles and Doubles each, three games series for Quartets). The penalty shall be zero pinfall for the frame.

- 21.4 Bowling Ball
- 21.4.1 The NSGOC reserves the right to examine the balls used by the participants. Use of an illegal ball is grounds for disqualification and forfeiture of all games, prizes and rankings.
- 21.4.2 Balance Hole
- a) All holes in a bowling ball must be used on every delivery. Any unused hole is considered a balance hole which is not allowed.
- b) The penalty is zero pinfall for that game played using that ball.
- 21.4.3 Alteration of Ball Surface
- a) Altering the surface of the bowling ball during a game is not allowed.
- b) If the surface is adjusted during a game, the penalty is zero pinfall for the game.
- 21.5 Oiling Pattern
- 21.5.1 The official oiling pattern for 2024 NSG is "2021 SYC Laurel Long" (46 Feet) (Refer to [Annex H](#)).
- 21.6 Competition Venue
- 21.6.1 Competition will be held at SuperBowl@Safra Mount Faber (2 Telok Blangah Way, Singapore 098803).

SECTION C – AMENDMENTS AND MATTERS NOT PROVIDED FOR

22. MATTERS NOT PROVIDED FOR

- 22.1 All matters not provided for in these Rules and Regulations shall be dealt with by the respective NSGOCs.

23. AMENDMENTS

- 23.1 The SSSC shall have the right to delete, add or amend the Rules and Regulations laid down herein.

24. LIST OF ANNEXES

| | |
|----|--|
| A | SSSC Mission, Aspirations and Motto |
| B | NSGOC Terms of Reference |
| B1 | PDPA Notification |
| C | Competition Format |
| D | Clarification, Protest and Appeal Overview |
| E | Role of Team Managers |
| F | School Adult Representative (SAR) |
| F1 | SAR Letter of Appointment |
| G | Code of Conduct for Coaches |
| H | Oiling Pattern |

**SINGAPORE PRIMARY SCHOOLS SPORTS COUNCIL (SPSSC)
AND SINGAPORE SCHOOLS SPORTS COUNCIL (SSSC)**

MISSION, MOTTO AND ASPIRATIONS

Mission

"To provide quality competition experiences for our school-athletes to support character development through the pursuit of sporting excellence"

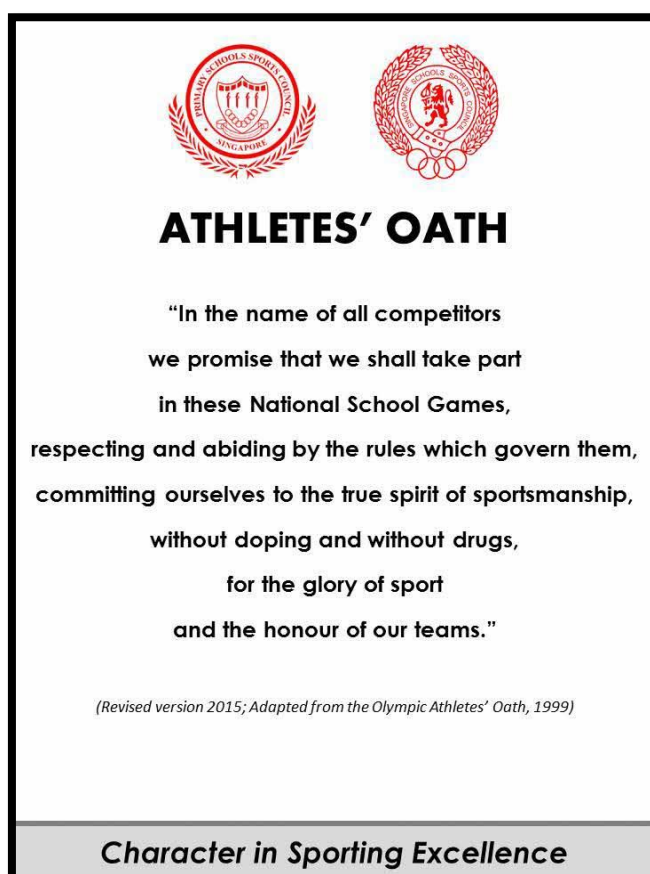
Motto

"Character in Sporting Excellence"

Aspiration 1: *Every athlete an honourable sportsperson*

Guiding Principle:

Athletes abide by the rules of the sport, gives their best in training and competitions, wins with integrity and humility, and loses with confidence and grace. They participate actively and are committed to being better in their sport. They respect their opponents, teammates, coaches, teachers and officials, and displays exemplary conduct both on and off court.



Aspiration 2: *Every teacher and coach an inspiring role model and mentor*

Guiding Principle:

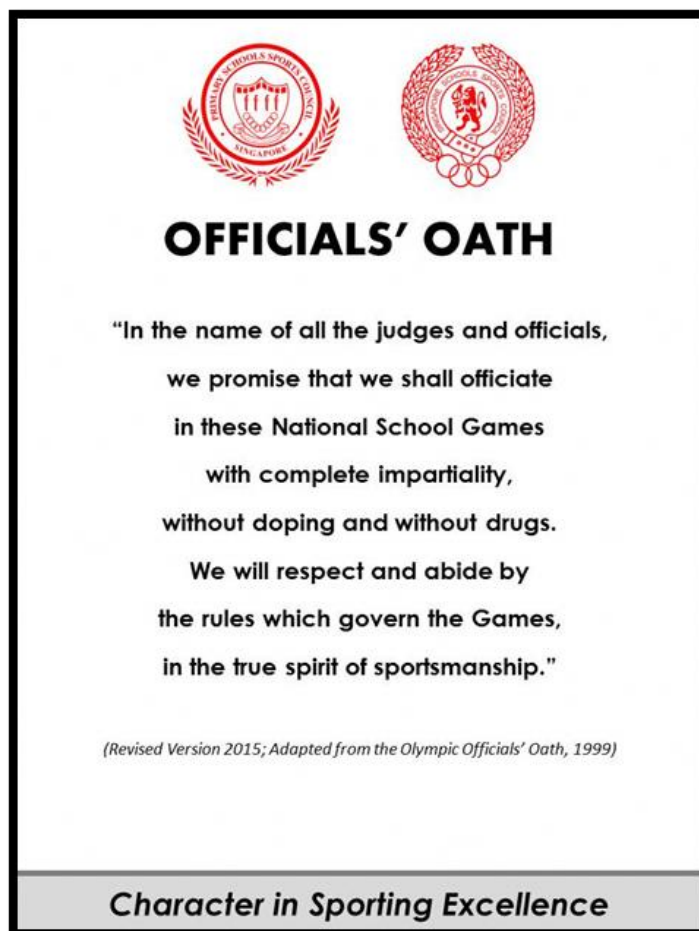
The teacher / coach endeavours to develop all athlete to their fullest potential. He focuses on student-centric and values-driven coaching. Teachers / coaches maintains a professional relationship with the athletes and ensures their safety and well-being at all times. As positive role models, they inspire and motivate the athletes towards greater heights.



Aspiration 3: Every official a fair, respectable and competent authority

Guiding Principle:

The official is well-versed in the rules of the sport, and enforces the laws of the sport with impartiality. They are alert and acts decisively when required. They ensure safety for all athletes and explains the rules when required. They uphold the professionalism of the sport.



Aspiration 4: Every parent a supportive partner

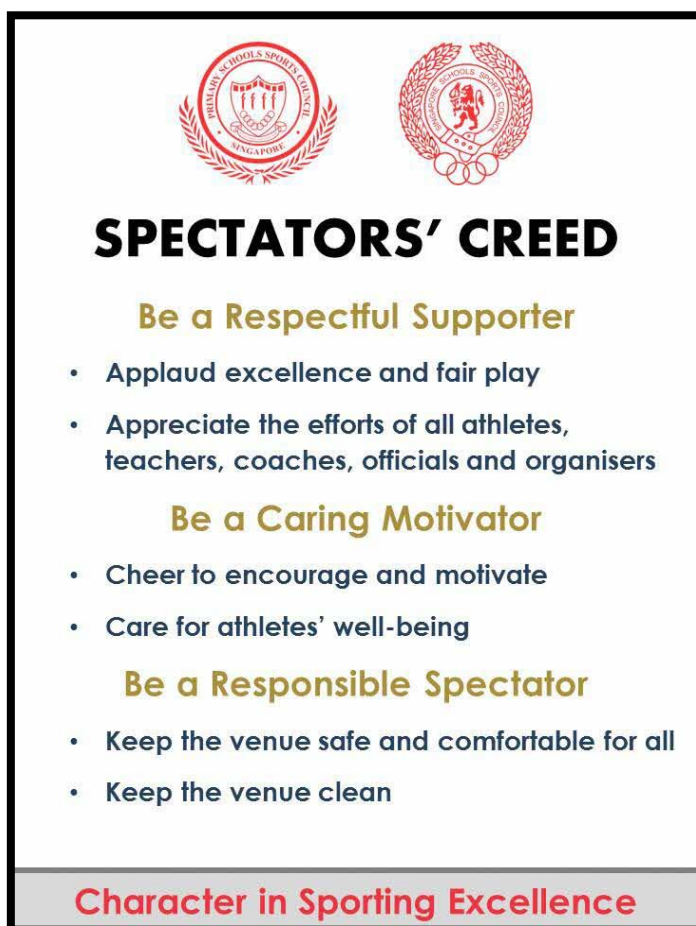
Guiding Principle:

Parents take interest in their child's, training and competitions and prioritises their long-term development over winning competitions. They ensure proper nutrition and rest for their children, and actively enquires on their progress and development. They work with the teacher and coach, attends competitions and respects the decisions of competition officials.

Aspiration 5: *Every spectator a respectful, responsible and caring motivator*

Guiding Principle:

Spectators applaud excellence and fair play from all athletes regardless of which team they represent. Spectators show appreciation for the efforts of all athletes, teachers, coaches, officials and organisers. They should cheer to encourage and motivate as well as care for the athletes' well-being. Spectators are responsible and keep the venue safe and comfortable for all.



Aspiration 6: *Every game a safe and enriching learning experience*

Guiding Principle:

The format of competition is developmental and age-appropriate. The games provide athletes with the opportunity to display their sporting abilities, and be recognised for their achievements. Athletes enjoy the competitions, which are conducted under safe and conducive environments.

TERMS OF REFERENCE FOR SPSSC / SSSC NATIONAL SCHOOL GAMES ORGANISING COMMITTEES (NSGOCs)

The NSGOCs shall have sub-committees to ensure the successful organising and completion of their respective sports that includes but is not limited to the following functions:

1. COMPETITION

Organise the competition according to the rules and regulations, and established safety standards, including:

a. Planning and Execution:

- i. Work out the competition schedules, fixtures and venues required.
- ii. Communicate with participating teams on all competition matters, including, but not limited to rules, dates, fixtures, venue, etc.
- iii. Identify and appoint Competition Director (if applicable) for deployment of officials.
- iv. Manage competition officials, venues, equipment, medical cover and logistics for effective and efficient conduct of the competition.

b. Risk Assessment and Management:

- i. Carry out risk assessment and management planning for each venue, including adherence to the baseline safety standards.
- ii. Communicate relevant parts of the risk assessment and management plan to all relevant parties.
- iii. Monitor and manage safety and security issues at the competition venue.

c. Venue Management:

- i. Ensure competition venues (including hosting schools and external venues) have the following in good condition to support the competition:
 - o Equipment
 - o Line Drawings (if applicable)
 - o Consumables
- ii. Inform hosting Schools of competition schedule.
- iii. Disseminate competition fixtures to all hosting and participating schools once fixtures are confirmed.
- iv. Inform hosting and participating schools at least three (3) working days before should there be any changes in venue or fixtures.
- v. Ensure that competition officials and medical support (if applicable) arrive at stipulated time at the competition venue.
- vi. Remind TMs during briefing:
 - o To check the latest hosting venues' SOPs before each competition
 - o To inform their fellow colleagues and SAR who may be accompanying their students for the competitions on their behalf
- vii. Prepare the competition venue, such as display of PDPA notifications (**Refer to [Annex B1](#)**), proper allocation of spaces for assembly, warm-up, match, rest areas, spectators, where necessary.

d. Results Processing:

- i. Ensure competition results are promptly and accurately sent to the NSGO for uploading to the NSG website.

e. Protest Management:

- i. Respond to clarifications / protests from participating schools during the competition.
- ii. Conduct investigations and resolve the clarifications / protests relating to the competition.

2. TECHNICAL

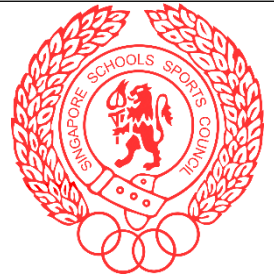
- a. Establish competition rules and regulations for the sport to ensure age appropriateness and opportunities for skills development, including, but not restricted to:
 - Age grouping / division
 - Format of competition
 - Permitted equipment
 - Field of play
 - Duration of play; intervals
 - Number of participants
 - Substitution rules, etc.
- b. Identify and appoint the technical director and officials for each competition.
- c. Monitor and review baseline safety standards for the competition.
- d. Review and update competition rules and regulations annually and submit Games Recommendations to NSGOC or Council Standing Committee for approval, where necessary.

3. RECOGNITION, PROTEST AND DISCIPLINE

- a. Recognition
 - i. Develop and implement appropriate recognition (including recognition criteria), to support the desired outcomes of the National School Games (NSG), such as Sportsmanship Award.
 - ii. Collect and communicate good stories to relevant parties, including participating schools, MOE HQ and the media where appropriate.
 - iii. Plan and organise prize presentations for the competition.
- b. Protest
 - iv. Conduct investigations with all parties involved, in consultation with the Game Advisor and Lead Convenor.
 - v. Resolve all protests and respond to relevant parties on the outcome within a week of incident reported.
 - vi. Update SPSSC / SSSC Standing Committee on the outcome of the clarifications / protests, where necessary.
- c. Discipline
 - i. Conduct investigations pertaining to disciplinary cases with all parties involved, in consultation with the Game Advisor.
 - ii. Resolve all disciplinary cases and respond to relevant parties in a timely manner
 - iii. Develop disciplinary policies and systemise processes to manage students, teachers and coaches and competition officials for alignment to the Councils' mission, motto and aspirations.



National School Games Photography & Video Recording Notice



The Ministry of Education (MOE), its authorised photographers and videographers, and approved media broadcasters will be conducting photography and video recording at this event. The photographs and videos may be used by MOE for internal publication or publicity materials. Video footage of the event may be live-streamed on MOE's and the broadcasters' media platforms.

By entering this venue and taking part in this event, you consent to the collection, use, and/or disclosure of photographs and videos containing your personal data by MOE and the approved media broadcasters for the above purposes.

COMPETITION FORMAT

In determining the format for the competition, NSGOC should aim to provide meaningful¹ competition experiences for participating teams. The suggested competition formats highlighted in this Annex are options that the NSGOC can consider when drawing up their fixtures. The selected competition format should be standardised within the same sport (i.e., across zones; and from year to year).

1. Grouping

The grouping approach should be determined based on the number of participants / teams in the competition, with the aim to allow teams to have sufficient playing opportunities while optimising resources (venue, officials, time, workload). Each group should comprise 4 to 6 teams with the exception of a single round robin for 7 teams.

2. Seeding

Seeding is done based on the preceding year's results and the seeding approach will differ according to the competition format chosen based on the following table:

Table 1: Recommended seeding approaches for different competition formats

| Zonal / Direct National Competitions | Pool – League Competitions | Other Competitions |
|---|---|---|
| Objectives of Seeding: <ul style="list-style-type: none"> To evenly distribute the top teams from the preceding year into different groups | Objectives of Seeding: <ul style="list-style-type: none"> To group teams to increase opportunities for them to play with teams of relatively similar abilities | Event-based Competitions / Individual Match-based Competitions_(e.g. Taekwondo (Kyorugi)) <ul style="list-style-type: none"> Adopt sports specific seeding approach that would meet the competition needs. |

¹ Each participating team should minimally play 3 matches (i.e., cumulative across Zonal and National competitions; where applicable) in the course of competition. For Tiered and League competitions, team should minimally play 6 matches. This is to allow for more equitable playing opportunities for all teams.

| <ol style="list-style-type: none"> 1. The top 4 teams from preceding year's National results will be seeded and distributed to different groups. 2. The remaining quarterfinalists will then be seeded and drawn into the different groups. 3. The remaining teams will be drawn / placed into groups. | <p><u>Pool</u></p> <ol style="list-style-type: none"> 1. Using preceding year's result, snake seeding will be used for Pool groupings. 2. The remaining teams will be drawn / placed into different Pool groups. 3. Refer to the table below which illustrates snake seeding. <table border="1" data-bbox="913 432 1350 818"> <thead> <tr> <th>Group One</th><th>Group Two</th><th>Group Three</th></tr> </thead> <tbody> <tr> <td>1</td><td>2</td><td>3</td></tr> <tr> <td>6</td><td>5</td><td>4</td></tr> <tr> <td>7</td><td>8</td><td>9</td></tr> <tr> <td>12</td><td>11</td><td>10</td></tr> </tbody> </table> <p><i>*The number indicates the ranking position.</i></p> <p><u>League</u></p> <ul style="list-style-type: none"> • Using Pool's result, the top teams will be seeded in different groups within each League. • The remaining teams will be drawn / placed into different groups. • Teams from the same group in the Pool Round will not be drawn / placed into the same group in League Round. | Group One | Group Two | Group Three | 1 | 2 | 3 | 6 | 5 | 4 | 7 | 8 | 9 | 12 | 11 | 10 | |
|---|--|-------------|-----------|-------------|---|---|---|---|---|---|---|---|---|----|----|----|--|
| Group One | Group Two | Group Three | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | | | | | | | | | | | | | | | |
| 6 | 5 | 4 | | | | | | | | | | | | | | | |
| 7 | 8 | 9 | | | | | | | | | | | | | | | |
| 12 | 11 | 10 | | | | | | | | | | | | | | | |

CLARIFICATION, PROTEST AND APPEAL OVERVIEW

| | Clarification (Formal & Informal) | Competing Under Protest (Some Sports Only) | Protest | Appeal |
|--------------------------------|---|---|--|---|
| Handled by: | NSGOC Rep and/or Competition Officials | NSGOC Rep and/or Competition Officials | NSGOC | BOA (Council and Zone Vice-Chairpersons) |
| Who must be Informed: | NSGOC Rep, Competition Officials | NSGOC Rep, Competition Officials, Affected TMs as determined by NSGOC | Principal, Lead Convenor, Lead Org Sec, Game Advisor | Principal, Lead Convenor, Lead Org Sec, Game Advisor and Honorary Secretary (for Zonal), Council Secretariat (for National) |
| How to Inform: | At competition venue, during appropriate interval without disrupting the game | At competition venue, during appropriate interval without disrupting the game | Indicate intent to protest on scoresheet at end of match and followed by an email sent through the Principal | Sent through the Principal via email |
| Fees if Overruled: | Nil | Nil | \$150 | \$300 |
| Approval Required From: | Nil | Nil | Principal | Principal |

ROLE OF THE TEAM MANAGERS

Team Managers (TMs) will represent the school on all matters pertaining to the duty of care, student management and competition matters relating to the participants from their school. They must be a good role model for the participants and are expected to conduct themselves well in carrying out their duties. They will:

| No | Terms of Reference |
|----|--|
| 1 | Be the point of contact between the National School Games Organising Committee (NSGOC) and the Principal (school). |
| 2 | Perform all necessary administrative duties and attend all briefings and / or meetings called for by the respective NSGOCs. |
| 3 | Check, verify and keep updated the fixtures and schedules involving the school. |
| 4 | Ensure: <ul style="list-style-type: none"> • Accuracy of participants' particulars in the registration and that participants are not placed in the wrong division. • All participants are adequately prepared for safe participation in the NSG in accordance with the Baseline Safety Acknowledgement Form. |
| 5 | Check and comply with the hosting venue's Standard Operating Procedures (SOPs) and communicate all related the information to all the stakeholders associated with the participating schools. |
| 6 | Make transport arrangements for the participants. |
| 7 | Chaperone participants to and from the competition venue. TMs who are SAR need only chaperone their own child as Parent Chaperones are responsible for chaperoning their own children. |
| 8 | Remain with the participants throughout the duration of play. |
| 9 | Arrange for a replacement, in the event that they are not able to perform their duty during the entire competition duration. TMs who are SAR should contact the school for assistance in such situations. |
| 10 | Cooperate with NSGOC & officials and abide by the rules and regulations of the competition to facilitate the smooth conduct of the competition and be a good role model for the participants. |
| 11 | Submit participant / team list and other necessary documents when required. |
| 12 | Manage the coaches, participants and spectators, if any, to ensure that they adhere to the General and sport-specific and rules and regulations Code of Conduct given in the rules and regulations. |
| 13 | Perform the duty of care for the participants' safety and well-being including: <ul style="list-style-type: none"> • Checking that participants are well enough to compete, • Reminding students to remain hydrated. • Having a first aid kit available. • For long duration competitions where students will need to consume a meal, the SAR should ensure that students have sufficient time for their meal. |
| 14 | Contact the school immediately in the event of an injury or emergency. |

| | |
|----|--|
| 15 | Consult school leaders for all media related matters. |
| 16 | Represent the school in matters pertaining to clarifications / protests / appeals (as required by the sport). |
| 17 | Accompany participants at disciplinary board meetings if the occasion arises. |
| 18 | Attend to any other matters pertaining to the duty of care, student management and competition matters relating to the participants from their school. |

SCHOOL ADULT REPRESENTATIVE (SAR)

1. The School Adult Representative (SAR) scheme aims to support schools in balancing the numerous competition opportunities for students and managing staff resources. SAR should be parents/legal guardians of one of the participating student-athletes in the session.
2. Schools may appoint suitable SAR as Team Managers for the sports listed.

| | |
|----------------------------|------------------|
| a) Bowling | g) Sailing |
| b) Canoeing | h) Shooting |
| c) Fencing | i) Swimming |
| d) Golf | j) Taekwondo |
| e) Judo | k) Track & Field |
| f) Gymnastics ¹ | l) Wushu |

¹ For Artistic Gymnastic and Trampoline, SAR may only be appointed by schools that do not offer Gymnastics as a CCA. They may be deployed to manage up to a maximum of 3 student athletes for each distinct competition of the sport.

3. SAR may be deployed to manage up to a maximum of 3 student-athletes for each session of the sport.
4. When there is more than one student-athlete in a session, SAR should be supported by parent chaperones (PC) who should be parents / legal guardians of the participating student-athletes. PC should accompany their own children to and from the competition venue and be responsible for their children's safety and well-being throughout the competition.
5. SAR are encouraged to be trained in first aid.
6. When appointing SAR, schools should:
 - Appoint an Education Officer (EO) as the **School Coordinator**, to serve as liaison between the SAR and the NSGOC.
 - Arrange and conduct a briefing for the SAR on their duties including:
 - SSSSC General and Sport-Specific Rules and Regulations
 - Safety protocols
 - Roles of TMs (**Refer to [Annex G](#)**)
 - Other school-specific SOPs or requirements
 - Be represented by 1 SAR per session only.
 - Ensure that PC are present to oversee their own children's / ward's safety and well-being when the SAR is on duty.
 - Issue the SAR Letter of Appointment (**Refer to [Annex F1](#)**) endorsed by the School Principal.

Frequently Asked Questions

1. **Can grandparents, siblings, helpers or other relatives be appointed as SAR?**

No. Only a parent or legal guardian of the student athlete can be appointed as the SAR.

2. **Can schools send an SAR for a team sport or event at the SSSC NSG?**

No. For all team sports or events, schools must send a **school staff** to be the Team Manager.

3. **What happens when an appointed SAR is not able to be present for duty or needs to leave before the end of a competition?**

The SAR should follow the school's current standard operating procedure for managing such situations and contact the school immediately to arrange for a replacement. An appropriate replacement should be provided by the participating school.

4. **If the SAR needs to accompany his/her child to the hospital before the end of the competition, what are the standard procedures?**

Please refer to Q6.

5. **If any of the parent chaperones does not turn up or needs to leave before the competition ends, what are the standard procedures?**

The SAR should call the School Coordinator to seek advice and assistance. The student whose parent is absent, may not be allowed to compete.

6. **Is there a different set of Baseline Safety Standards (BSS) School Acknowledgement Form for schools represented by SAR?**

The same form will be used. The School Coordinator should brief the SAR on the requirements and implications of the BSS Acknowledgement Form. SAR should also be familiar with the respective sports safety requirements and practices and is encouraged to be trained in first aid.

<School Letter Head>

**SCHOOL ADULT REPRESENTATIVE (SAR)
LETTER OF APPOINTMENT**

| | |
|--|--|
| School: | |
| Sport: | |
| Full Name of SAR: (as in NRIC / Passport) | |
| NRIC / Passport No.: (last 4 characters e.g. 234A) | |
| Name of Child / Ward: | |
| Mobile No.: | |

Terms and Conditions

1. The above-mentioned is appointed as the SAR who shall represent the school in the National School Games competition for the sport and dates given only.
2. The SAR shall believe in and support the Council's mission, motto and aspirations and support the involvement of the students under their charge in the competitions and events with a strong educational focus.
3. The SAR shall perform the roles and responsibilities of the SAR including:
 - a. Representing of the school as a Team Manager (TM) (Refer to [Annex E](#) for the main roles and responsibilities of a TM.)
 - b. Attending all briefings and meetings conducted by the school for SAR.
 - c. Work and coordinate with PC, if any, to facilitate a good participation experience for all participants including:
 - Establishing contact with PC and keeping them informed on the competition schedules and other necessary information.
 - Ensuring that all participants are present and PC are present to oversee their own children's/ward's safety and well-being. SAR should contact the school coordinator for assistance immediately if they are unable to contact the PC and/or the participant.

- d. Being professional in the discharge of their duties. They should not bring along any other students or children who are not involved in the competition for that day so that they can more effectively discharge their duties.
 - e. Observing and complying with all rules, policies, procedures, expectations, and codes of conduct of the School, Singapore Schools Sports Council (SSSC) and the applicable sporting body as may be issued from time to time.
 - f. Take all necessary precautions to ensure the safety, security, health and wellbeing of the students under their charge.
- 4. The SAR shall declare to the school if he/she is under investigation for any criminal offence by any authority in Singapore or elsewhere or is facing disciplinary proceedings by any sporting body in Singapore or elsewhere.
 - 5. Except with the written consent of the school, the SAR shall not disclose any information or material furnished by the school or make any statement or representation on behalf of the school to any media or any person not related to the NSG Organising Committee.
 - 6. The SAR shall not make use of any information obtained directly or indirectly from the course of his/her duty, other than for the conduct of the NSG, unless prior written approval has been given by the school.
 - 7. The SAR declares that, at the date of entering into this Agreement, there is no conflict of interest in the performance of this service, and of its obligations under this Agreement.
 - 8. The appointment is subject to the meeting of the above terms and conditions and may be revoked by the school or SSSC if they are breached.

Name & Signature of SAR

Date

Name & Signature of Principal

School Stamp

Date

CODE OF CONDUCT FOR COACHES

| No | Description |
|----|---|
| 1 | Coaches must be good role models and are expected to conduct themselves well in carrying out their duties. |
| 2 | They are to observe the rules and regulations of the National School Games and honour the Coaches' Oath. |
| 3 | They should not replace the role of the Team Manager. |
| 4 | They are to prepare the training schedule for the team, in consultation with the Head of Department (HOD) and the teacher-in-charge (i.e. Student Development Programme). |
| 5 | It is the responsibility of coaches to adhere to the rules and to be well versed with the competition rules. |
| 6 | They are not allowed into the field of play except where the rule of the sport requires the presence of the coach. |
| 7 | They cannot represent the school in any matters. |
| 8 | They must not interfere with the organisation of the competition. |
| 9 | They are not allowed to approach the officials to query their decisions. Only Team Managers are allowed to approach officials to seek clarifications. |
| 10 | They must ensure that the student participants have adequate rest and are given water breaks. |
| 11 | Coaches should refrain from using foul language or speak in a tone not becoming of proper behaviour. |
| 12 | Coaches violating the rules will be asked to leave the competition arena. |
| 13 | Action will be taken against the school if the coaches fail to comply with the competition rules. |

OILING PATTERN



2021 SYC LAUREL LONG



| | | | |
|--------------------|----------------|-----------------|----------------------------|
| DISTANCE: | 46 FEET | VOLUME: | 26.1 mL |
| RATIO: | 4.23:1 | FORWARD: | 20.2 mL |
| DROP BRUSH: | 35 FEET | REVERSE: | 5.9 mL |
| TANKS: | KEGEL | PUMP: | 50μL |



FORWARD LOADS DATA

| # | START | STOP | LOADS | MICS | SPEED | BUFF | TANK | DISTANCE | T.OIL |
|---|-------|------|-------|------|-------|------|-----------|----------|-------|
| 1 | 2L | 2R | 4 | 50 | 14 | 3 | A - Kegel | 0 → 6 | 7,400 |
| 2 | 6L | 6R | 2 | 50 | 14 | 3 | A - Kegel | 6 → 10 | 2,900 |
| 3 | 7L | 7R | 2 | 50 | 18 | 3 | A - Kegel | 10 → 15 | 2,700 |
| 4 | 9L | 9R | 2 | 50 | 18 | 3 | A - Kegel | 15 → 20 | 2,300 |
| 5 | 10L | 10R | 2 | 50 | 18 | 3 | A - Kegel | 20 → 25 | 2,100 |
| 6 | 11L | 11R | 1 | 50 | 18 | 3 | A - Kegel | 25 → 27 | 950 |
| 7 | 14L | 14R | 2 | 50 | 18 | 3 | A - Kegel | 27 → 32 | 1,300 |
| 8 | 15L | 15R | 1 | 50 | 22 | 3 | A - Kegel | 32 → 36 | 550 |
| 9 | 2L | 2R | 0 | 50 | 26 | 3 | A - Kegel | 36 → 46 | 0 |

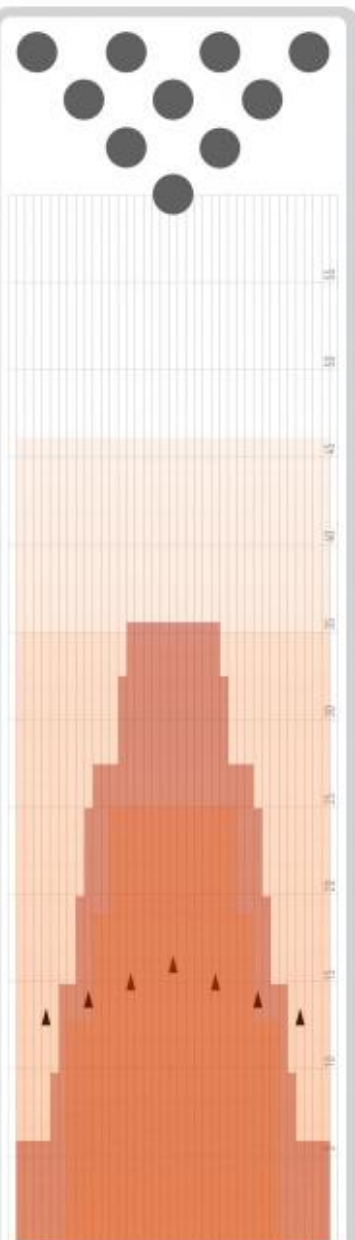
REVERSE LOADS DATA

| # | START | STOP | LOADS | MICS | SPEED | BUFF | TANK | DISTANCE | T.OIL |
|---|-------|------|-------|------|-------|------|-----------|----------|-------|
| 1 | 2L | 2R | 0 | 50 | 30 | 3 | A - Kegel | 35 → 25 | 0 |
| 2 | 13L | 13R | 2 | 50 | 22 | 3 | A - Kegel | 25 → 19 | 1,500 |
| 3 | 11L | 11R | 2 | 50 | 22 | 3 | A - Kegel | 19 → 13 | 1,900 |
| 4 | 8L | 8R | 2 | 50 | 18 | 3 | A - Kegel | 13 → 8 | 2,500 |
| 5 | 2L | 2R | 0 | 50 | 14 | 3 | A - Kegel | 8 → 0 | 0 |

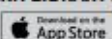
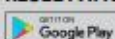
THIS PATTERN IS DESIGNED FOR:

REVERSE DROP BRUSH

This pattern may require adjustments if using a lane machine that does not have these features



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