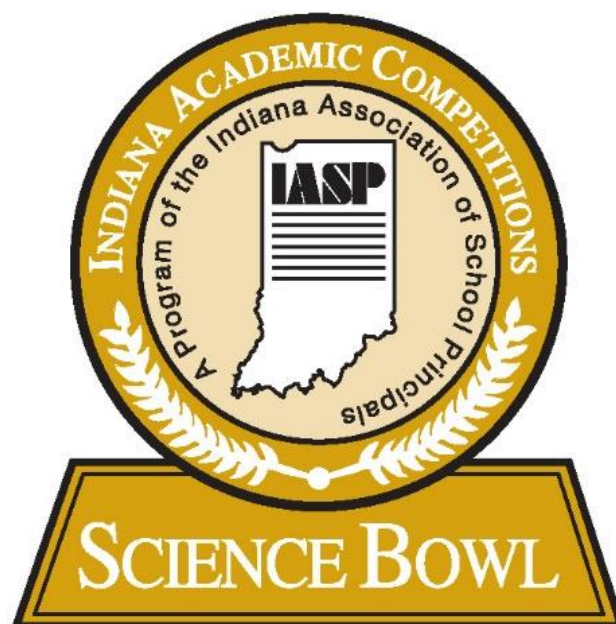


Indiana Science Bowl



COACHES HANDBOOK 2024

A program of the
Indiana Association of School Principals



in partnership with



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CHANGES AND UPDATES FOR 2024

The Indiana Dept. of Education Disciplinary Core Idea to be utilized for the 2023-2024 school year will be **Life Science**.

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Updated Elementary Division Guidelines

These changes have been made to eliminate the burden on coaches and hosts of determining class and making changes to class based on the current make-up of their teams. This will allow coaches to make changes to their rosters up until the day of the contest without having to notify anyone.

Five classes are available for Elementary Level Competitions.

CLASSES WILL BE DETERMINED BY THE GRADE LEVELS HOUSED IN THE SCHOOL, NOT THE MAKE UP OF GRADES ON THE TEAMS.

Two classes are open to buildings that house **up to and including 6th grade**.

Blue Class – 187 students and up in gr. 4, 5, & 6 only

Green Class – up to 186 students in gr. 4, 5, & 6 only

Two classes are open to buildings that house **up to and including 5th grade**.

Orange Class – 163 students and up in gr. 4 & 5 only

Red Class – up to 162 students in gr. 4 & 5 only

One class is open to buildings that house **up to and including 4th grade**.

Yellow Class (enrollment number is not required)

IASP GENERAL POLICIES

Extracurricular Expectations:

The IASP Board of Directors believes that academic competition is an extracurricular activity. Therefore, organized team practices for academic competitions shall not take place during any instructional part of the school day. In addition, special courses should not be designed or implemented for the primary purpose of preparing teams for academic competition.

All building principals are encouraged to review this position statement with academic coordinators and coaches to clarify that all organized team practices occur as an extracurricular activity. However, non-instructional time, such as lunch and recess, could be used for organized team practices. It is permissible for students to read and do online research during the school day, if there is not any organized practice, and research does not occur during school instructional time.

Competition Tests may be taken at any time during the testing window, including instructional time, if determined appropriate by the school principal and team coach.

Honor Code

The Indiana Association of School Principals (IASP) sponsors various programs that benefit all students in Indiana. The IASP Department of Student Programs organizes academic competitions for elementary, junior high/middle, and high school students. By the nature of academic competitions, the atmosphere at each competition should be challenging and intense, but sportsmanship, common sense, decency, fairness, and respect should prevail at all times. These virtues should be taught to students by adults, then adhered to by students and coaches at all competition sites.

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The majority of coaches and students conduct themselves in an exemplary manner and are commended for displaying positive attitudes and behavior.

The IASP Board of Directors reminds principals of their responsibility to make certain that all personnel and students conduct themselves in the proper manner at all school functions. Therefore, the board expects that all principals require coaches and students to display appropriate behavior and sportsmanship at all academic competitions.

Study aids, books and other materials are not permitted in the competition room.

Using the computer to look up answers is not permitted during the competition.

Consultation between students is not permitted during the Individual Round.

Coaches are not permitted to discuss the content of the competition but may assist with technical issues involving using the testing site. Coaches may follow procedures like ISTEP testing rules when helping administer competition tests.

It IS acceptable to have a technology expert in the testing room. Any other observers may be allowed at the discretion of each coach but must follow the same honor code procedures as students and coaches.

The content of the competition questions should not be discussed with anyone outside your own team until after the competition testing window has ended.

Printing, saving, or taking notes on the content of the competition questions is not permitted during the contest.

Calculator memories should be cleared prior to the beginning of the competition.

Dress Code:

Academic competitions are not forums for personal statements, but rather are gatherings of talented students all with the primary objective of academic excellence. Principals and academic coaches have a shared responsibility to require and enforce standards of apparel deemed acceptable to represent their school and community to a statewide audience. We encourage clothing of a 'dressed-up' nature and/or matching team attire to enhance team spirit.

The following are considered unacceptable or inappropriate attire:

Clothing that is overly revealing or advertises drugs, alcohol, tobacco, or contains explicit, suggestive, and/or offensive language or graphics.

Shirts or adornment that contain potentially pertinent information to the contest.

IASP reserves the right to disqualify a student or team for unacceptable or inappropriate attire.

Supervision of Teams:

a) The host site will have an administrator present during the competition to handle any situations which may develop. The Procedural Committee may bring disruptive or questionable behavior on the part of coaches, competitors, or spectators to the host administrator's attention so the situation may be addressed.

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b) Each team is to be supervised by a coach designated by their school principal. This coach will be responsible for seeing that all team members follow all rules and behave in an appropriate manner. A high level of sportsmanship will be expected of competitors, coaches, and fans. Failure of a coach to adequately supervise the team may result in the disqualification of the whole team.

ENTERING THE CONTEST

DSP Membership/Contest Entry Form

All schools participating in this contest must be members of the Department of Student Programs. To complete the membership/contest entry form, go to our website <https://iasp.org/students/join-dsp/>. You may wish to consult with the coaches of all our programs before submitting your form in order to avoid filling out multiple forms for multiple contests.

Contest Entry Deadline: See Contest Timeline for all contest dates (posted on contest web page)

Eligibility

Any student enrolled full-time in grades 4, 5 or 6 is eligible to compete on that school's elementary team. Schools may select their teams in any manner, and with any additional criteria, they choose. For example, homeschooled students may participate on an IASP sponsored academic team if school policy allows participation.

Enrollment Classifications

Five classes are available for Elementary Level Competitions.

CLASSES WILL BE DETERMINED BY THE GRADE LEVELS HOUSED IN THE SCHOOL, NOT THE MEMBERSHIP ON THE TEAMS.

Two classes are open to buildings that house **up to and including 6th grade**.

Blue Class – 187 students and up in grades 4, 5, & 6 only

Green Class – up to 186 students in grades 4, 5, & 6 only

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One class is open to buildings that house **up to and including 4th grade**.

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Expenses

- a) An entry fee will be charged to participate in the Science Bowl. The entry fee must be received by the close of the school year. This fee will help to defray the costs of writing the questions, purchasing awards, and other expenses associated with the competition. Each school will be responsible for its own expenses.
- b) All schools choosing to participate in the Science Bowl competition must be Department of Student Programs member schools. Please check with your administrator to ensure your school's membership is current.

CONTEST FORMAT

- a) The elementary competition will be made up of three rounds. The Experiment Round and the Team Round will not have a limit of eligible students. The Individual Round will include four students. All questions will be administered through an online test.
- b) Online tests for each round may be completed in any order. Each round will have a 30 minute time limit. Questions for each round shall consist of multiple-choice and/or true/false questions.
- c) Team Rounds will consist of 15 questions, completed cooperatively by an unlimited group of students. Experiment Rounds will consist of 10 questions, completed cooperatively by an unlimited group of students. Individual Rounds will consist of 15 questions, answered individually by 4 students. **Note regarding Experiment Round: We encourage teams to do the experiment before the competition and to take notes as the experiment is performed, as notes may be used during the Experiment Round test.**

PREPARING FOR THE CONTEST

Study Guidelines

- a) The competition will be based on Indiana Department of Education Disciplinary Core Ideas for grades 5, 6, and 7. The four Core Ideas below will be used on an annually rotating basis:
 1. Physical Science (emphasis on chemistry)
 2. Earth and Space Science (emphasis on earth science)
 3. Life Science
 4. Engineering Technology and Applications of Science (emphasis on physics)

The Core Idea to be utilized for the 2023-2024 school year will be Life Science.

The Core Idea to be utilized for the 2024-2025 school year will be Physical Science.

The Core Idea to be utilized for the 2025-2026 school year will be Earth and Space Science.

The Core Idea to be utilized for the 2026-2027 school year will be Engineering Technology

- b) A video recording with the question writer will be made available in the fall of each year. This recording will address the specific Disciplinary Core Idea utilized for the contest. A Powerpoint (Science Bowl

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Procedures) reviewing the various forms, rules/regulations, and items that don't change from year to year is available on the contest web page under the header Contest Materials.

Time Limits

- a) Each of the three rounds will be allotted 30 minutes for completion.
- b) Breaks may be taken between rounds, at the discretion of the coach.

Consultation

- a) Consultation between team members is encouraged during the Team and Experiment Rounds.
- b) No consultation of any sort is permitted during the Individual Round.

Calculators

Calculators are permitted during the competition. Question writer(s) will indicate prior to the competition if calculators may be useful.

Challenges

All questions and answers are considered to be official as presented and will stand. If a coach believes a question was incorrect, the IASP office should be notified of a challenge by phone or email to the Student Programs Director before the 4-day contest window closes. A written challenge to questions or answers should be emailed to the IASP office ASAP for a review and response. This written challenge should contain documentation proving the answer or question is wrong. If a challenge is made, IASP may delay posting of the statewide scores. If the challenge is upheld, the IASP staff may adjust scores before posting statewide results.

Scoring

- a) Team Round Questions will each be worth 3 points (15 questions for a maximum total of 45 points). Experiment Round questions will each be worth 4 points (10 questions for a maximum of 40 points). Individual Round scores of all 4 students will be averaged. The average number of Individual Round questions will then be worth 1 point each (15 questions, for a maximum of 15 points).

Decorum

- a) Every effort should be made during the competition to allow the contestants to concentrate. No unnecessary talking or gestures should be made to, or around, the contestants in competition.

Breaking Ties

- a) In the event there is a tie score at the end of the competition, the first tie-breaker (TB-1) will be the correct number of tie breaker questions in the Team Round (Maximum score will be 2).
- b) If a tie remains after utilizing the first tie-breaker method, the second tie-breaking procedure (TB-2) will be the number of correct tie breaker questions in the Experiment Round. (Maximum score will be 2).
- c) If a tie still exists after using the first two tie-breaker methods, the third tie-breaker (TB-3) will be the number of correct tie breaker questions in the Individual Round. (Maximum score will be 8).
- d) If the tie for all rounds is not broken after using the three tie-breaker methods, the score will stand.

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- e) Because of the importance of the last questions of each round in the tie-breaker process, every effort will be made to ensure these are the most challenging. A perfect score would be 100-2-2-8.
- f) All scores will be calculated by the IASP staff.

Technical Requirements

Science Bowl will be administered through SurveyMonkey (system used for several years). Up to four computers will be used.

AWARDS

1. Certificate templates will be available on the Science Bowl web page for coaches to personalize with team member names.
2. First, Second and Third Place Ribbons will be awarded to teams placing in the top 3 in their enrollment class; Participant ribbons are available to all other participating teams. The Department of Student Programs will contact coaches requesting number of ribbons needed.
3. Team plaques will be awarded to schools placing in the top 3 in their enrollment class.