OVERVIEW

Participants complete a written, objective test in order to qualify for oral question/response, head-to-head team competition.

PURPOSE

Participants have the opportunity to demonstrate knowledge of TSA leadership skills and the systems of technology.

ELIGIBILITY

Participants are limited to one (1) team of three (3) members per chapter. Teams that take the written test and advance to the semifinalist portion of the event must be composed of the same three (3) members.

TIME LIMITS

A. The written test is administered at the same time to all students entering this event. One (1) hour is allowed for this test.

B. Teams selected as semifinalists must be available as scheduled for oral competition.

ATTIRE

Competition attire, as described in National TSA Dress Code (www.tsaweb.org/Dress-Code), is required for this event.

PROCEDURE

A. Participants report to the event area at the time and place stated in the conference program.

B. Participants follow the specific regulations and adhere to the directions provided on site by the event coordinator.

C. Each team is assigned a number by the event coordinator. This number establishes the initial order of participation in the oral portion of the event.
D. All team members take the written exam. The twelve (12) top-scoring teams qualify as semifinalists. A semifinal list in random order is posted.

E. Semifinalist team members report to the oral event area holding room at the time and place stated in the conference program. After a short briefing, advisors leave and the teams remain in the holding room until they are called for competition. Teams that leave the holding room before being called for competition are eliminated. Teams may visit with other teams in the holding room; however, no advisors or visitors may enter.

F. Team members are not allowed in the oral event area as observers until after their team has been eliminated from competition.

G. When instructed to do so, two (2) teams enter the event area and are seated according to instructions.

H. Teams are paired using the semifinalist teams’ flow chart.

I. Once a team is eliminated, it is out of the oral competition except for the semifinal round, in which the third and fourth positions are determined.

J. Questions are drawn as needed from a card file resource bank.

K. If equipment malfunctions, a question that is being considered at that time automatically is disqualified. If equipment malfunctions three (3) times, time is called by the event coordinator to set up the back-up equipment. After equipment has been set up and tested, the event continues from the point where it stopped.

It is essential that students and advisors routinely check the TSA website (www.tsaweb.org) for updated information about TSA general rules and competitive events. This information is found on the website under Competitions/Updates and Clarification. When students participate in any TSA competitive event, they are responsible for knowing of updates, changes, or clarification related to that event.

REGULATIONS

A. Written exam
   1. The event coordinator distributes scannable answer forms.
   2. Participants must bring two (2) pencils to the event site to take the written test.
   3. Late participants are disqualified and restricted from the test area.

Participants must provide—and bring to the test site—two (2) pencils (sharpened standard #2/HB grade with an eraser, or #2 mechanical with an eraser) for any competition that involves a written test.

Read the General Rules and Regulations in the front of this guide for information that applies to all of TSA’s competitive events.
4. Participant entry numbers are assigned during event registration and must be entered on the test paper in the space indicated.

5. Participants must stop work immediately when time is called.

6. Should a participant complete the test before the time allocated, the participant holds the test paper and remains seated quietly without distracting anyone else. Failure to do so results in disqualification of the participant.

7. All test papers must be turned in before leaving the test area.

B. Oral exam

1. The total test score of all three (3) team members determines team ranking.

2. Twelve (12) teams, based upon the written test results, are selected as semifinalists.

3. All three (3) team members of a semifinalist team must be available to participate at the scheduled time for the oral test phase of the event. If a team or member is late for participation, that team forfeits and is eliminated from competition.

4. No transmitting or recording devices are permitted in the event area. No prompting is permitted.

5. The team member who “buzzes in” for a question has five (5) seconds to answer the question without discussion.

6. The team that answers the bonus question correctly is allowed ten (10) seconds to discuss the extra question and to give an answer.

7. After a question is read, the competing teams have ten (10) seconds to “buzz in.” If these teams are unable to answer the question, then another question is read.

8. If a team member “buzzes in” before the question is finished being read, that member must give the exact answer as printed on the answer card.

EVALUATION

A. Written exam: Scores on a test of fifty (50) multiple choice and completion questions determine the winners of the written exam and the semifinalist teams for the oral event.

B. Oral exam

1. A team’s score is derived from the total number of correct answers to the questions asked. For each correct answer, the team receives ten (10) points.

2. When a question has been completely read and a team has been recognized to answer after pressing the button, should
the team not answer or answer incorrectly, five (5) points are deducted from the team's total score. In this instance, the other team does not have the opportunity to respond to this question and the next question is read for both teams.

3. If a question is being read and a team member presses the button before the question is finished, the member must answer completely, as stated on the answer card. If the answer is incorrect, the entire question is read for the other team.

4. Twelve (12) questions per round are asked. No questions are repeated in another round.

5. In case of a tie, five (5) additional questions are asked. If a tie exists after the first tiebreaker, then five (5) additional questions are asked. This procedure continues until the tie is broken. The questions are picked at random from the test bank.

6. One of the twelve (12) questions asked is a bonus question. The participants are told when the bonus question is asked, and the team that answers it correctly has the opportunity to answer one (1) additional question. This is the only time team members may consult with each other before giving an answer. The team has ten (10) seconds to give its answer. If a team gives an incorrect answer to the bonus question, then the question is read for the other team. Bonus point scoring: If a team answers the bonus question correctly, that team receives fifteen (15) points; if a team answers the bonus question incorrectly, that team loses five (5) points from its score. Additional question: If a team answers the additional question, that team receives five (5) points; if it does not answer the additional question correctly, then no points are lost. The other team has an opportunity to answer the additional question, although the additional question is not read again. The team has ten (10) seconds to discuss and give its answer. A correct answer is worth five (5) points, and an incorrect answer reduces the team score by five (5) points.

C. Awards: The top ten (10) participants with the highest scores on the written exam are finalists and are recognized at the awards ceremony. The top ten (10) teams with the highest total scores on the written test also are introduced. Trophies are awarded to the top three (3) individuals in the written competition and the top three (3) teams in the oral competition.
STEM INTEGRATION

This event aligns with the STEM educational standards noted below. Please refer to the STEM Integration section of this guide for more information.

Science, Technology, Engineering, Mathematics

COMMON CORE STATE STANDARDS (CCSS) INTEGRATION

Please refer to the Common Core State Standards (CCSS) Integration section of this guide for more information.

PRIMARY LEADERSHIP SKILLS

Leadership skills promoted in this event:

- COMMUNICATION — Students will demonstrate their knowledge of technology-related topics. Suggested leadership lessons: Listening Skills and Personality Types
- CRITICAL THINKING — Students will use evidence, judgment and knowledge to answer questions. Suggested leadership lessons: Critical Thinking Tips and The Hidden Message
- TEAMWORK — Students will appreciate the contribution of team members. Suggested leadership lessons: Teams and Stepping Stones

Additional leadership skills promoted in this event: decision making, evaluation, problem solving, self-esteem

TSA AND CAREERS

This competition connects to one or more of the career areas featured in the TSA AND CAREERS section of this guide. Use The 16 Career Clusters chart and the TSA Competitions and The 16 Career Clusters grid as resources for information about careers.

CAREERS RELATED TO THIS EVENT

Computer technician
Construction analyst
Engineer
Entrepreneur
Technology education instructor
TECHNOLOGY BOWL
EVENT COORDINATOR INSTRUCTIONS

PERSONNEL
A. Event coordinator
B. Timer for written exam, one (1)
C. Assistants for written exam, one (1) for every twenty (20) participants
D. Evaluator for grading, one (1)
E. Timekeeper for oral exam, one (1)
F. Scorekeeper for oral exam, one (1)
G. Moderator for oral exam, one (1)

MATERIALS
A. Coordinator’s notebook, containing:
   1. Event guidelines, one (1) copy for the coordinator and for each evaluator
   2. Official rating forms
   3. List of entries with finalist report
   4. List of evaluators/assistants
   5. Sufficient copies of the written test (tests must be returned immediately following the event)
   6. Scannable answer forms
   7. Semifinalist list for posting
   8. Results envelope
B. Written exam
   1. Stopwatch for timekeeper
   2. Tables and chairs in sufficient quantity to accommodate all participants
   3. Official rating forms for evaluators
   4. Scan machine and forms
C. Oral exam
   1. Table and chairs for the evaluators
   2. Two (2) tables and six (6) chairs for the event team, facing the moderator and audience
   3. Technology Bowl winners’ chart
   4. List of chapters for the event
   5. Buzzer system and controls
Technology Bowl

6. Stopwatch for timekeeper
7. Large, erasable audience score sheet (20" x 36")
8. 5" x 8" question cards selected from the technology bowl test bank with test questions and the acceptable answer(s) clearly typed

RESPONSIBILITIES

A. Upon arrival at the conference, report to the CRC room and check the contents of the coordinator’s notebook. Review the event guidelines and check to see that enough evaluators/assistants have been scheduled.

B. Inspect the area(s) in which the event is being held for appropriate set-up, including room size, chairs, tables, outlets, etc. Notify the event manager of any potential problems.

C. One (1) hour before the event is scheduled to begin, meet with your evaluators/assistants to review time limits, procedures, and regulations. If questions arise that cannot be answered, speak to the event manager before the event begins.

D. Begin the event at the scheduled time by closing the doors and checking the entry list. All participants and evaluators should be in the room at this time. Participants not present may be disqualified. In order to compete, participants must be on the entry list or must have approval of the CRC chairperson.

E. Distribute the scannable answer forms with the help of the evaluators. Direct the participants to fill in their entry number and test code letter in the appropriate spaces.

F. Pass out the written test with the help of the evaluators (tests are coded A or B). Participants seated next to each other should not have the same coded test; tests should be alternated A, B, A, B, and so on. Instruct the participants to keep the tests face down until they are directed to turn them over and begin.

G. With the event coordinator acting as the timer and the evaluators acting as proctors (by positioning themselves around the event room), direct the participants to turn their test papers over, place their code number and the code letter found on the test on their scantron forms, and begin.

H. Exactly one (1) hour from the time that the participants begin answering the questions, call time. Ask the participants to turn their answer sheets face down and then the test papers face down. Have participants pass their answer sheets to one of the evaluators. Collect all of the test papers. Make sure that all test papers are collected. When all have been turned in, the participants may be dismissed.
I. Determine the twelve (12) semifinalist teams by adding the scores of teammates on the written test.

J. Prepare a list of the twelve (12) semifinalists and submit it to the CRC chairperson for posting.

K. Run the oral component as described in the Procedure section.

L. For participants who violate the rules, the decision either to deduct 20% of the total possible points or to disqualify the entry must be discussed and verified with the evaluators, event coordinator, and a CRC manager; all must initial either of these actions on the rating form.

M. Complete and submit the finalist report, which includes a ranking of the ten (10) finalists, and all related forms in the results envelope to the CRC room.
TECHNOLOGY BOWL

SEMIFINALIST TEAMS FLOW CHART

Note to evaluators: This is a single elimination format (semifinalist teams ONLY).

<table>
<thead>
<tr>
<th>Team 1</th>
<th>Team 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round 1A</td>
<td>Round 2A</td>
</tr>
<tr>
<td>Bye</td>
<td>Round 2A</td>
</tr>
<tr>
<td>Team 9</td>
<td>Team 5</td>
</tr>
<tr>
<td>Round 1B</td>
<td>Round 1C</td>
</tr>
<tr>
<td>Team 11</td>
<td>Team 12</td>
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<tr>
<td>Round 1D</td>
<td>Round 1E</td>
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<tr>
<td>Team 4</td>
<td>Team 3</td>
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<tr>
<td>Round 1F</td>
<td>Round 1E</td>
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<tr>
<td>Team 10</td>
<td>Team 6</td>
</tr>
<tr>
<td>Round 1G</td>
<td>Round 1G</td>
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<tr>
<td>Team 7</td>
<td>Team 2</td>
</tr>
<tr>
<td>Round 1H</td>
<td>Round 2D</td>
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<tr>
<td>Team 2</td>
<td>Team 1</td>
</tr>
<tr>
<td>Round 3A</td>
<td>Round 4B</td>
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<tr>
<td>Team 8</td>
<td>Team 9</td>
</tr>
<tr>
<td>Round 3A</td>
<td>National Champion</td>
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<td>Team 12</td>
<td>Team 6</td>
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<tr>
<td>Round 4B</td>
<td>Third-place winner</td>
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<tr>
<td>Team 10</td>
<td>Team 5</td>
</tr>
<tr>
<td>Round 3B</td>
<td>3A loser</td>
</tr>
<tr>
<td>Team 11</td>
<td>Team 12</td>
</tr>
<tr>
<td>Round 4A</td>
<td>3B loser</td>
</tr>
</tbody>
</table>

Second-place winner

Third-place winner
**TECHNOLOGY BOWL**

**2015 & 2016 OFFICIAL RATING FORM**

<table>
<thead>
<tr>
<th>Team member 1</th>
<th>(A)</th>
<th>(B)</th>
<th>Team member 2</th>
<th>(A)</th>
<th>(B)</th>
<th>Team member 3</th>
<th>(A)</th>
<th>(B)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Question #</strong></td>
<td></td>
<td></td>
<td><strong>Points</strong></td>
<td></td>
<td></td>
<td><strong>Team #</strong></td>
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<td>1.</td>
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<td>+10 for correct, -5 for incorrect response</td>
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<td>2.</td>
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<td>+10 for correct, -5 for incorrect response</td>
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<td>3.</td>
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<td></td>
<td>+10 for correct, -5 for incorrect response</td>
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<td>4.</td>
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<td>+10 for correct, -5 for incorrect response</td>
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<td>5.</td>
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<td>+10 for correct, -5 for incorrect response</td>
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<td>6.</td>
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<td>+10 for correct, -5 for incorrect response</td>
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<td>7.</td>
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<td>+10 for correct, -5 for incorrect response</td>
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<td>8.</td>
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<td>+10 for correct, -5 for incorrect response</td>
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<td>9.</td>
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<td>+10 for correct, -5 for incorrect response</td>
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<td>10.</td>
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<td>+10 for correct, -5 for incorrect response</td>
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<td>11.</td>
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<td>+10 for correct, -5 for incorrect response</td>
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<td>12.</td>
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<td>+10 for correct, -5 for incorrect response</td>
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<tr>
<td><strong>Bonus and additional question</strong></td>
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<td>(+15 for answering the bonus question correctly and +5 points for answering the additional question correctly)</td>
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<tr>
<td><strong>SUBTOTAL (140 points)</strong></td>
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**Tie Breaker Questions**

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<th>Question #</th>
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<tbody>
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<td>2.</td>
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<td>3.</td>
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<td>5.</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</tbody>
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## TECHNOLOGY BOWL (continued)

Rules violations (a deduction of 20% of the total possible points) must be initialed by the evaluator, coordinator, and manager of the event. Record the deduction in the space to the far right.

| Indicate the rule violated: __________ |

(To arrive at TOTAL score, add any subtotals and subtract rules violation points, as necessary. Check your math twice!)  

| TOTAL (140 points) |

| Comments: |

| I certify these results to be true and accurate to the best of my knowledge. |

| Evaluator |

| Printed name: ____________________________ | Signature: ____________________________ |