

**THE NATIONAL ORGANIZATION FOR THE
PROFESSIONAL ADVANCEMENT OF
BLACK CHEMISTS AND
CHEMICAL ENGINEERS (NOBCCChE)
GULF COAST CHAPTER**

RULES AND GUIDELINES

**FOR
THE
SCIENCE BOWL COMPETITION**

GRADES 7-12

The purpose of this publication is to provide teachers, science bowl coordinators with the guidelines for the NOBCCChE Science Bowl Competition.

SCIENCE BOWL INFORMATION

The Science Bowl Competition is an event in which students compete as teams in a 'Toss Up/ Bonus' question format. The competition involves a Junior (7th - 9th grades) and a Senior (10th - 12th grades) division. What makes this competition unique is the requirement that at least 50% of the team members should be African-American and that 20% of the questions are about African - American Inventors, Scientists and Engineers.

The local science bowl entry form allows a three or four-member team to compete. A minimum of three members, two of which must be African American, may compete in the local competition; however, four member teams must compete in the national competition. Four member teams are preferred. An alternate is allowed for the local competition. However, the ethnicity requirement of a competing team must be as described above.

Middle, Junior High and High Schools may enter two teams in the Science Bowl competition.

The science bowl will feature single elimination competition between either two or three four-member teams (depending on the number of schools participating) answering questions in the science bowl areas listed on below.

- A panel of judges will judge the science bowl competition. The decisions of the judges will be final.
- A moderator will read the science bowl questions.

THERE IS NOT A LOCAL OR NATIONAL SCIENCE BOWL COMPETITION FOR THE ELEMENTARY DIVISION.

Science Bowl Areas (Junior and Senior Divisions)

Biology	Physics
Environmental Science	Mathematics
Chemistry	Computer Science
African-American Inventors, Scientists, and Engineers (20% of the questions)	

Recognition

Each Science Bowl team member will receive a Certificate of Participation. Each member of the first, second, and third place team will receive a medallion and a Certificate of Award. The first and second place winning senior science bowl teams will be eligible to compete in the Department of Energy Science Bowl Competition in Washington, DC in early May 2007. The first place winning team members in

each division will be invited to the NOBCCChE Student and Teacher Recognition Banquet in June 2007.

DOE REGIONAL SCIENCE BOWL COMPETITION

Information regarding this event will be given on a later date.

Team Selection Guidelines for NOBCCChE Gulf Coast Chapter

If the winner of Gulf Coast Chapter competition decides that they only want to compete in the NOBCCChE Science Bowl, then the second place team will represent the Gulf Coast chapter in the DOE competition.

GUIDELINES FOR SCIENCE BOWL COMPETITION

The Science Bowl Competition is an event in which students compete as teams of three or four against each other in a “Toss-Up /Bonus” question format. Twenty (20) percent of the questions asked are about African American inventors, scientists, and engineers.

Please read the guidelines for the NOBCCChE Science Bowl before entering teams. Teams entered in this Science Bowl must not violate any of the following rules. Entry forms received after the deadline will not be accepted.

General Guidelines

1. Team members must be registered with the Science Bowl Committee 14 days prior to the competition date. Any entry form packet filed after that date will **NOT** be accepted and the student(s) will **NOT** be allowed to participate in any competitions. The person(s) responsible for submitting the entry packet will be notified that the entries have been received.
2. All information for all participating students must be provided.
3. Team members must be enrolled in a public, parochial, or private school in grades 7 through 12.
4. Each team may consist of no more than four (4), no less than three (3) members. Each team may have an alternate that will replace a team member that is unable to compete. Each team must meet the ethnicity requirements for team members.
5. Team members are not interchangeable.
6. In a given round, at least 10 percent of all questions asked will be about African and African American scientists, engineers, inventors, and their work.
7. Single elimination: A team is eliminated from further competition if it loses twice.
8. Two types of questions will be asked during the competition. TOSS-UP questions worth four- (4) points each and BONUS question worth ten (10) points each.
9. Only contestants can challenge the wording of a question asked or an answer(s) given to a toss-up or a bonus question.
10. If a challenge to a question arises, the match will be stopped until the judge has an opportunity to resolve the question about the answer. Timing of the match is suspended until the matter is resolved. Once the question is resolved, the round is allowed to continue for the remaining time.
11. If the score is tied at the end of regulation time for a round, a one-minute period will be allowed for the competing teams to answer TOSS-UP QUESTIONS. All TOSS-UP QUESTIONS must be answered in their entirety in order for the team to receive full credit for answering the questions correctly.

Toss-Up Questions

1. Each match will consist of two eight (8) minute halves. The half ends when the time has expired or TEN TOSS-UP QUESTIONS have been asked and the contestants have had an opportunity to answer them.
2. The answers to all TOSS-UP QUESTIONS must be given in their entirety in order for the answer to be accepted.

3. Two types of questions will be asked during the competition. TOSS-UP QUESTIONS worth four (4) points each and BONUS QUESTIONS worth a total of ten (10) points each.
4. The contestant who first activates the buzzer earns the right to answer the TOSS-UP QUESTION after being recognized by the moderator.
5. There is to be no consultation among contestants prior to answering a TOSS-UP QUESTION. Only the contestant who has been recognized will be allowed to answer the question. An answer must be given immediately. In the event consultation occurs or an individual in the audience gives an answer, that TOSS-UP QUESTION will be tossed out.
6. If a contestant interrupts the reading of a TOSS-UP QUESTION being asked and gives an incorrect answer, that team is penalized four (4) points and the remaining team(s) is/are given an opportunity to answer that question after the TOSS-UP QUESTION has been re-read in its entirety.
7. If a the TOSS-UP QUESTION being asked is interrupted by a contestant giving a correct answer, that team will receive four (4) points for having answered the question correctly.
8. After reading a TOSS-UP QUESTION, the moderator will allow five (5) seconds for the team member who has signaled he/she wishes to answer the question. After waiting the prescribed time and no answer is given, the moderator will proceed to the next QUESTION. Timing begins immediately after the moderator has completed one reading of the TOSS-UP QUESTION. After the question has been read in its entirety, a TOSS-UP QUESTION will not be re-read.
9. Only one answer is allowed as the answer to A TOSS-UP QUESTION.
10. If the moderator inadvertently gives the answer to a TOSS-UP QUESTION without giving either team an opportunity to answer that question, the question will be tossed out and the moderator will proceed to the next TOSS-UP QUESTION.
11. If an incorrect answer has been given by a contestant who signaled first and the moderator inadvertently gives the answer to that TOSS-UP QUESTION before the other team(s) have an opportunity to respond with an answer, that TOSS-UP QUESTION will be tossed out.

Bonus Questions

1. After the TOSS-UP QUESTION has been properly answered, that team may be allowed to answer a BONUS QUESTION. Team members will have twenty (20) seconds to consult with each other before answering. An answer will only be accepted from the team captain. **NO OTHER ANSWER WILL BE ACCEPTED.**
2. The timekeeper will indicate when twenty (20) seconds have expired by saying **TIME**. No answer will be accepted after the time allotted has expired. If the captain has begun to give an answer to the BONUS QUESTION, the captain will be allowed to complete the answer to that question. **NO STALLING WILL BE ALLOWED.**

3. If the answer to a BONUS QUESTION has more than one part, points for the answer(s) will be awarded according to the number of parts there are to the answer. The total number of points that can be awarded for correctly answering a bonus question is ten (10).

One part answer	10 points
Two part answer	5 points for each part
Four part answer	2.5 points for each part
Five part answer	2 points for each part
4. If the moderator or a member of the audience gives an answer, that question will be disallowed and no points will be awarded to the team answering the BONUS QUESTION. The team will then be given an opportunity to answer another BONUS QUESTION.
5. If a team has correctly answered a TOSS-UP QUESTION at the end of a time period, the team will have an opportunity to answer a BONUS QUESTION.

NOBCCHE SCIENCE BOWL RESOURCE LIST

Books

- Reviewing Physics (Amsco Publishers)
- Reviewing Chemistry (Amsco Publishers)
- Reviewing Biology (Amsco Publishers)
- The Ultimate Science Quiz Book (Bill Aldridge), 1994
- This unique series of quiz questions will test the depth of understanding in many areas of science. It will not only help students answer science bowl questions; it will help teach students science!
- Black Pioneers of Science and Invention (Louis Haber), 1992
- Black Scientists (Lisa Yount), 1991
- Black Scientists of America (Donovan) 1990
- A Salute to Black Scientists and Inventors, Volume 2 (Empak Enterprises), 1996

Websites

<http://www.princeton.edu/~mcbrown/display/faces.html> (The Faces of Science: African Americans in the Sciences)

<http://bgess.berkeley.edu/bios/text.shtml> (This site contains information of African American scientists)

www.fetc.doe.gov/coolscience/school/question_toc.html (This site is a good source for science bowl content questions.)

<http://bgess.berkeley.edu/bios/text.htm>

<http://www.nobcche.org> (This site contains links to sources for science bowl questions.)

<http://www.swagga.com/inventors.htm>

http://www.princeton.edu/~mcbrown/display/inventors_bibliography.html

<http://www.princeton.edu/~mcbrown/display/faces.html>

<http://www.princeton.edu/~mcbrown/display/women.html>

<http://www.princeton.edu/~mcbrown/display/alphabetic.html>

Notes:

- Any science book may be used to prepare students to answer questions on biology, chemistry, and physics.
- The local representative for Amsco Publishers is Charlie Nolan, 1/800-419-7162.
- 20% of the Science Bowl questions are about African American Inventors, Scientists, and Engineers.