



STEM COMPETITION JUDGE'S SCORE SHEET

Judge's Name _____ **Contestant's Number** _____

CATEGORY	POINTS	TOTAL POINTS	
INNOVATION AND UNIQUENESS		30	
The story being told or the approach of the presentation is unique	15		
Creative and engaging animated content	10		
Strategic uses of interactive software/tools	5		
VISUAL PRESENTATION		20	
The flow of the visual representation, camera movements, and general composition is impactful	10		
Connected events, actual or imaginary, presented in a logical sequence of moving images	10		
TECHNICAL IMPLEMENTATION		15	
Uses programming concepts to simplify or structure the project	5		
Coding makes it easy to understand the narrative/storyline	5		
Makes use of audio or other features	5		
USEFUL INFORMATION		15	
Educational/Informative	10		
Entertaining	5		
PROJECT DEVELOPMENT JOURNAL		10	
Evidence of a design process	5		
Professionally organized and easy to understand	5		
ORAL PRESENTATION		10	
4- to 6-minute presentation on how they researched and developed their project	5		
Personal appearance	5		
GRAND TOTAL			100

MASTER SCORE SHEET



STEM COMPETITION JUDGE'S SCORE SHEET

Entry Number	Judge 1	Judge 2	Judge 3	Total	Penalty Deduction	Final Total	Rank
Contestant #1							
Contestant #2							
Contestant #3							
Contestant #4							
Contestant #5							
Contestant #6							
Contestant #7							
Contestant #8							
Contestant #9							
Contestant #10							
Contestant #11							

NOTE: Timekeeper provides calculations committee with contestant times. The calculation committee deducts three (3) points for every 15 seconds over six (6) minutes or under four (4) minutes.

The calculations committee will also deduct two (2) points if the contestant states any identifying data during the oration (i.e., name of the school, city, state, and sponsoring chapter or region).



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**STEM COMPETITION
JUDGE'S SCORE SHEET**

MASTER SCORE SHEET

Entry Number	Judge 1	Judge 2	Judge 3	Total	Penalty Deduction	Final Total	Rank
Contestant #1							
Contestant #2							
Contestant #3							
Contestant #4							
Contestant #5							
Contestant #6							
Contestant #7							
Contestant #8							
Contestant #9							
Contestant #10							
Contestant #11							

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The calculations committee will also deduct two (2) points if the contestant states any identifying data during the oration (i.e., name of the school, city, state, and sponsoring chapter or region).



**STEM COMPETITION
JUDGE'S SCORE SHEET**

MASTER SCORE SHEET

Entry Number	Judge 1	Judge 2	Judge 3	Total	Penalty Deduction	Final Total	Rank
Contestant #1							
Contestant #2							
Contestant #3							
Contestant #4							
Contestant #5							
Contestant #6							
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Contestant #10							
Contestant #11							

NOTE: Timekeeper provides calculations committee with contestant times. The calculation committee deducts three (3) points for every 15 seconds over six (6) minutes or under four (4) minutes.

The calculations committee will also deduct two (2) points if the contestant states any identifying data during the oration (i.e., name of the school, city, state, and sponsoring chapter or region).



STEM COMPETITION

Timekeeper Score Sheet

ENTRY NUMBER	START	FINISH	TOTAL	OVER	UNDER	PENALTY
Contestant #1						
Contestant #2						
Contestant #3						
Contestant #4						
Contestant #5						
Contestant #6						
Contestant #7						
Contestant #8						
Contestant #9						
Contestant #10						
Contestant #11						

Note:

NOTE: Timekeeper provides calculations committee with contestant times. The calculation committee deducts three (3) points for every 15 seconds over six (6) minutes or under four (4) minutes.

Calculations committee will also deduct two (2) points if the contestant states any identifying data during the oration (i.e., name of the school, city, state, and sponsoring chapter or region).

Contestant #: _____

STEM Project Rubric

Level	INNOVATION AND UNIQUENESS				VISUAL PRESENTATION		TECHNICAL IMPLEMENTATION
	Storyline	Animation	Scene Details	Creativity	Camera Moves	Grammar	Knowledge and Technicality
4	The storyline is extremely well-developed and flows through the beginning, middle, and end. The title is present.	Detailed animation of all animate objects. No still scenes.	All scenes are detailed and incorporate the depth of foreground, mid-ground, and background	Exceptionally clever and unique in showing deep understanding	Sophisticated use of camera moves. Incorporates variety (close-ups, angles, etc.) but does not take away from the story's flow.	No spelling, punctuation, capitalization, or grammar errors. Text slang used only when appropriate.	Demonstrated advanced skills and problem-solving. The project displayed skills above and beyond mini-projects.
3	The storyline is well-developed and flows through the beginning, middle, and end. The title is present.	Detailed animation of most animate objects. No still scenes.	All scenes are fairly detailed and incorporate the depth of foreground, mid-ground, and background	Thoughtfully and uniquely presented; clever at times in showing understanding of the context	Good use of camera moves. It incorporates variety but does not take away from the flow of the story.	1-5 spelling, punctuation, capitalization, or grammar errors.	Demonstrated good skills and problem-solving. The project displayed some skills above and beyond mini-projects.
2	The storyline is difficult to follow OR is lacking the development of beginning, middle, and end. The title is present.	Some animate objects are lacking animations, and some scenes appear still.	Some scenes are lacking detail and depth of foreground, mid-ground, and background	A few original touches enhance the project to show some understanding of the context	Minimal use of camera moves. Incorporates some variety, but moves do not add to the story.	5- 10 spelling, punctuation, capitalization, or grammar errors.	Weak skills and attempts at problem-solving. OR project did not display skills above and beyond mini-projects.
1	The storyline is difficult to follow and lacks the development of the beginning, middle, and end. No title present.	Animate objects are lacking animations, and many scenes appear still.	All scenes show minimal detail, and the depth of foreground, mid-ground, and background is lacking.	Shows little creativity, originality and/or effort in understanding the context	Poor use of camera moves. Camera moves do not add to the story or are distracting.	More than 10 spelling, punctuation, capitalization, or grammar errors.	Weak skills and attempts at problem-solving. The project did not display skills above and beyond mini-projects.

Contestant #: _____

STEM Project Rubric



**BLACKS IN GOVERNMENT®
STEM COMPETITION
SUBMISSION CHECKLIST**

Task	Chair Initial
1. STEM project relates to the STEM competition theme: <i>"The Water Crisis in America, How do we Repair it?"</i>	
2. Student-designed and created a 3-minute video using science and various technologies.	
3. Contestants did not include their names or any other identifying data (i.e., name of school, city, state, or sponsoring chapter).	
4. Student provided one typed copy of the oration.	
5. Student provided a birth certificate.	
6. Student provided a project journal.	
7. Entry form is completed and signed.	
8. Parent authorization form is signed and included.	
9. Chaperone information is included.	
10. The student was not a previous National 1 st Place Winner	



**BLACKS IN GOVERNMENT (BIG)
NATIONAL STEM COMPETITION**

PARTICIPANT BACKGROUND INFORMATION
(Please Print)

Student's Name: _____ Age: _____

Address: _____ City/State/Zip _____

Parent/Legal Guardian Name: _____

Phone: (day) _____ (night) _____

Email address: _____

If I cannot be reached, please notify _____ Phone: _____

Please list any food allergies: _____

Medical Insurance Company _____ Policy # _____

Is the student currently taking medicine or treatment? ___ Yes ___ No

If yes, explain: _____

Parent/Guardian Signature: _____ Date: _____

NOTE: This form is required and must be completed on each regional winner and submitted to the National Program and Planning Chair along with all other required documents.



BLACKS IN GOVERNMENT (BIG) NATIONAL STEM COMPETITION

PARENTAL AUTHORIZATION (PARENT OR GUARDIAN)

(This form must be completed for each Regional 1st place winner.)

I hereby give permission for _____ to take part in the following activities:

- 2024 Round trip travels from my child's residence to BIG's National Training Institute (NTI) in Tampa, FL.
- Students will arrive on **Tuesday, August 13, 2024**, and depart on **Friday, August 16, 2024**.
- Participation in BIG's STEM Competition.
- Participation in and attend youth events sponsored by the National Organization of BIG; and
- Participation in attend the Closing Plenary session (formal attire) NTI workshops

So that my child can participate in BIG's Oratorical Competition, I agree to the following:

I give permission for my child to participate in the activities sponsored above by the National Organization of BIG. I release BIG and its members from responsibility and liability for any illness or injury that my child may sustain during this activity. I agree that if I am present in Tampa, FL. I will supervise my child when the activities noted above are taking place. If I cannot be contacted in the event of an emergency, I authorize that emergency treatment may be administered. I agree and certify that my child understands that he/she must abide by any guidelines set forth by BIG, and certify that my child is mature enough to understand and abide by restrictions imposed upon him/her if I am not at the conference. I hereby release BIG and its members from responsibility and liability for my child's negligent and intentional acts. I hereby release BIG and its members from responsibility and liability for the negligent or intentional acts of third parties that harm my child. I fully understand and agree to the terms of this agreement and have been given the opportunity to ask questions regarding this release before signing the agreement.

Parent/Guardian Signature: _____ Date: _____

NOTE: This form is required and must be completed on each regional winner and submitted to the National Program and Planning Chair along with all other required documents.



**BLACKS IN GOVERNMENT
NATIONAL EXECUTIVE COMMITTEE
PROGRAM AND PLANNING COMMITTEE**

**BIG Science, Technology, Engineering, Math
Program Construct**

OBJECTIVE: To encourage and help prepare high school students to pursue a college education in Science, Technology, Engineering, and Math.

GOAL: To provide academic and social support to participants so that they have the competencies to become successful STEM professionals. This program will create a link between informal learning and school-based learning.

EXPECTED OUTCOMES

1. Nurture curiosity.
2. Encourage students to take advanced courses.
3. Challenge students with advanced procedures.
4. Provide active learning projects that combine ideas with technical skills.
5. Prepare participants for rigorous and competitive scientific scholarships.

TARGET AUDIENCE: High school students in the 11 regions of Blacks In Government

PROGRAM PRIORITIES

1. Advancing STEM concepts and professions
2. Innovation at the frontier of informal learning
3. Broadening participation
4. Fostering collaborations

STEM PROGRAM COMPONENTS

Training for Chapter/Regional STEM Program Managers: BIG chapter/region STEM managers and volunteers will be provided with professional development opportunities related to the mission, goals, and purposes of the BIG STEM program. Workshops will be held virtually and in-person (when possible) throughout the year leading to the BIG STEM competition.

Career Counseling, Academic Tutoring, and Mentoring: BIG chapters partner with professional engineers, college students, and parents to provide tutoring and mentoring opportunities for students.

Monthly STEM Meetings: Students attend monthly meetings with STEM advisors and mentors. At these meetings, students are provided with mathematics and science workshops, assistance with science/mathematics fair projects, career counseling sessions, self-esteem workshops, goal-setting and problem-solving activities, computer literacy instruction, and technical writing seminars.

Computer/Technology Instruction: The ability to use technology as a tool is essential for engineers, scientists, and mathematicians; STEM students must have robust technical and computer capabilities. Students participate in computer and technology tutorials, use scientific and graphing calculators, utilize the Internet for research, and access computers and technology



**BLACKS IN GOVERNMENT
NATIONAL EXECUTIVE COMMITTEE
PROGRAM AND PLANNING COMMITTEE**

for practice and personal use.

Experiential Learning: To make students more aware of careers in the sciences, Chapter sponsors field experiences that enable students to interact with engineers, mathematicians, and scientists in their professional environments. Field trips should be planned according to students' interests and research projects.

Incentive Awards: Students who maintain at least a B average in mathematics, science, and English will be eligible to receive incentive awards. Students will also receive certificates and other tangible acknowledgments of their participation and achievements in the BIG STEM Program.

Saturday Academies: To assist students in improving and developing their problem-solving skills in math, engineering, and science, BIG partners with universities and colleges to sponsor Saturday Academies. These programs consist of academic tutorials and hands-on projects that help students develop their knowledge of scientific concepts and applications. Students conduct research, write summaries, and participate in related discussions.

Science Fairs, Engineering Projects, and Mathematics Competition: Chapters/Regions partner with existing programs to provide students with scientific methodology instruction and guidance in researching and preparing their designated STEM research projects. With guidance from STEM partners, students develop science and engineering research projects for entry in science/technology fairs and competitions and, ultimately, the BIG National STEM project.

BIG National STEM Competition: The National Organization of Blacks In Government (BIG) sponsors an annual STEM competition for 9th – 12th-grade students to compete for scholarships and awards. The program provides high school students with the chance to develop STEM skills and demonstrate their expertise and creativity.



BLACKS IN GOVERNMENT 2024 STEM COMPETITION

Theme: *“The Water Crisis in America, How Do We Repair it?”*

9th thru 12th Grade



For more information, contact:

Name:

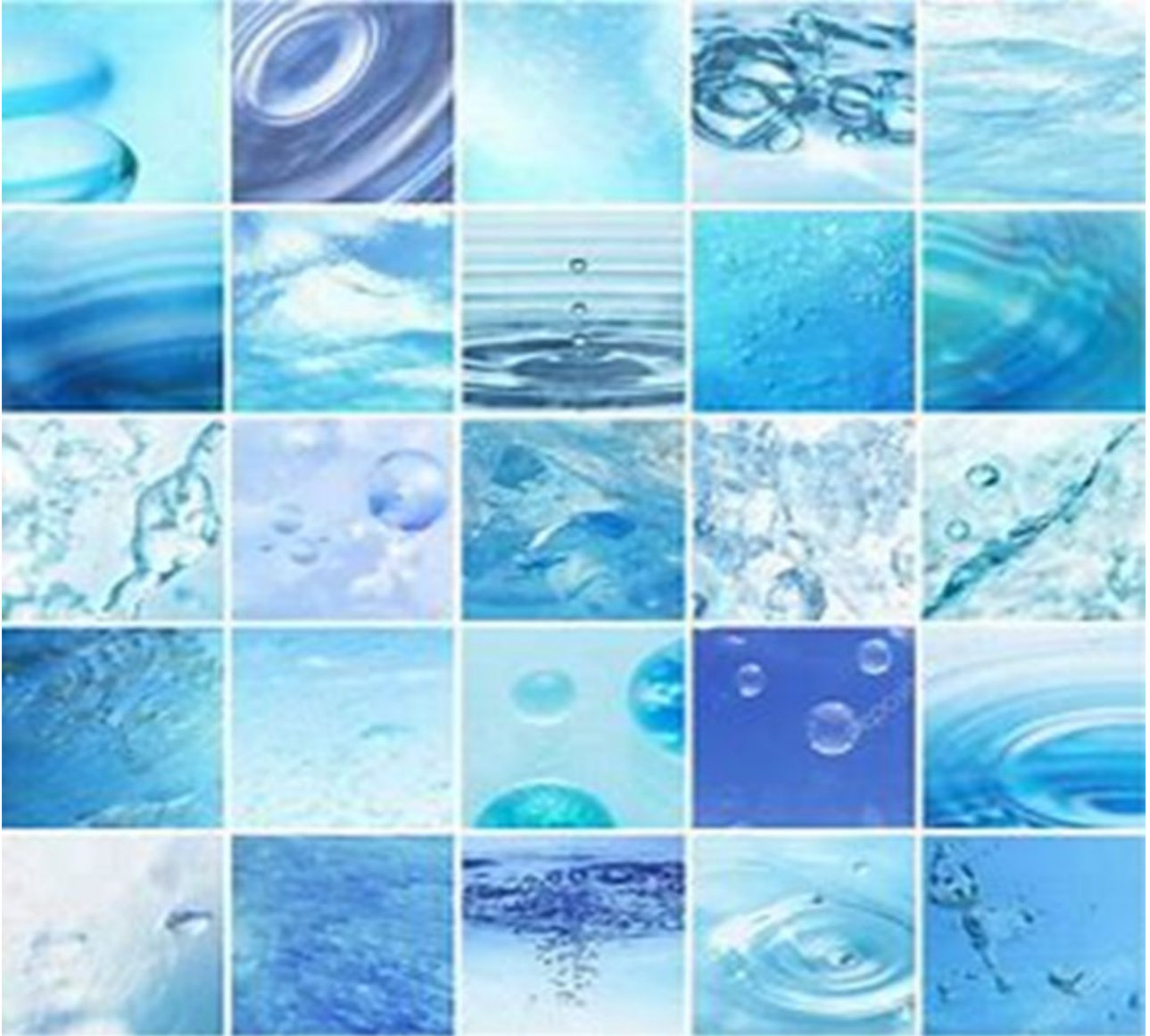
Phone:

E-mail Address:

Registration Deadline:

BLACKS IN GOVERNMENT

Science, Technology, Engineering and Mathematics Competition



2024 STEM Planning Guidelines

BIG Program and Planning Committee
bigprogramandplanning@gmail.com

BLACKS IN GOVERNMENT®

2024 STEM

Student Competition

2024 STEM Planning Guidelines

Theme: *"The Water Crisis in America, How Do We Repair it?"*

The Blacks In Government Science, Technology, Engineering, and Mathematics-Student Competition (STEM-SC). This competition promotes science, engineering, and technology (STEM) capabilities at the local and national level. For the youth, the STEM Competition will also advance their social and economic well-being in the United States and internationally.

This year's competition will focus on an environmental issue impacting African American communities. The official theme is *"The Water Crisis in America, How Do We Repair it?"* The competition project will give students a quality learning experience and challenge them to develop important STEM competencies. No prior experience is necessary to participate in the competition. Students are encouraged to work with a subject matter expert (SME) as a mentor.

Overview

The competition is designed to introduce and encourage students to embrace STEM concepts and professions. The competition project will give students a quality learning experience and challenge them to develop important STEM competencies. The STEM competition invites students to identify a water system challenge in their area (or another area such as Flint, MI, Jackson, MS, rural towns across the US, etc.) and demonstrate using computer programming a solution/improvement to the issue. Based on scientific research, students will write a story explaining the water crisis/system issue. Students will share suggestions for making improvements to the water crisis/system problem (i.e. is it a filtration, equipment, infrastructure and/or funding problem). Students will use technology to create a 2-min video that shows the water system in action. Students will submit the video along with the written story. Students will use technology to create animations, build interactive narratives, or program games. They will compete against other students at the chapter, region, and, ultimately, national level.

This planning guide provides the details needed to conduct a successful technical, creative competition at the chapter, regional, and national levels. Make sure every student in grades 9 through 12 has the opportunity to participate in the competition.

All student entries at the Chapter and regional level must adhere to all of the national published guidelines. Any entries submitted to compete in the national competition that do not adhere to

BLACKS IN GOVERNMENT®

2024 STEM

Student Competition

the national guidelines at either the chapter or regional competition will be penalized and will not resubmit their entry at any level.

NOTE: STUDENTS "MUST" COMPETE AT THE CHAPTER AND REGIONAL LEVELS TO COMPETE AT THE NATIONAL LEVEL.

If a chapter or region has only ONE entrant, the chapter president or the regional council president (as appropriate) must submit a written endorsement to the Regional Chair or National Program and Planning Committee Chair (as appropriate). Chapters and Regions must also provide the Judges' Score Sheets and the master score sheet to the Regional Chair and National Program and Planning Committee Chair, as appropriate.

PLANNING AND PROMOTION

Use the planning calendar below to determine the milestones for when to conduct the chapter and regional competitions:

CALENDAR

January 2024	Competition packages emailed out to all chapters and regions
January 2024	Send information to all local school officials, teachers, civic organizations, churches, and youth organizations about the competition. Distribute the flyers to all potential sponsors and engineering professionals, and contestants. Identify subject matter experts to work with the chapter to provide guidance. Select three judges for the contest. Select judges from local colleges/universities, professional organizations, or high schools. The judges should have a background in engineering or another related field.
February/March/April 2024	Chapters conduct contests (reproduce/purchase certificates of participation for all contestants) and select local contest winners. Submit the winner to the regional chair. Check with regional councils on the timeframe of regional competitions.
May/June 2024	Chapter/Regional Competitions. Competitions may be accomplished virtually also. <i>See Attachment 1.</i>
July 1, 2024	Submit Regional Winners and all required documents to the National Chair by email. Student entry forms and ALL required documents must be submitted no later than July 1, 2024. Also, provide names, addresses, email addresses, and

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2024 STEM

Student Competition

phone numbers of primary and alternate chaperones to the National Program and Planning Committee Chair.

NOTE: STEM competitors will NOT send their projects with the paperwork. They will transport them to the competition.

Aug 2024

National Competition scheduled during BIG's Annual National Training Institute.

COMMUNICATION

Contact school counselors and discuss what departments may be interested in receiving the materials. Talk with as many school officials as possible to garner interest.

As you discuss the STEM competition, remember to share Blacks In Government's goals and objectives with school officials, parents, and community leaders. Also, invite them to future chapter meetings.

SELECTING JUDGES

Select three judges who will rank the entries individually. Their combined ratings will determine the winners. Judges should NOT be acquainted with any of the contestants. Select a diverse pool of judges. The judges should have a background in engineering, science or another related field.

HANDLING TIES

In case of a tie, the competition chair will establish the means for determining the 1st place winner. Only ONE 1st place winner can compete at the regional/national level.

FOOD/LODGING/TRAVEL

Check with your regions to determine what type of support they will provide chapters who participate in the program. National Blacks In Government will provide information on any travel and lodging funding for youth to attend the National Youth Competitions at the National Training Institute.

AWARDS

Local chapter and regional awards are determined and sponsored by individual chapters and regions. The National Awards are:

First Place	\$1000 and a Plaque
Second Place	\$600 and a Plaque
Third Place	\$400 and a Plaque

Conduct the STEM Competition Program at the chapter and regional levels to recognize your winning students. Remember to provide certificates of participation to all contestants. Invite parents, community leaders, the judges, and all BIG members and constituents to recognize award winners. Local colleges and universities, military facilities, or local businesses may provide you with location sites for the STEM Competition Program.

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2024 STEM

Student Competition

COMPETITION PROJECT REQUIREMENTS

Competition Level: 9th –12th Grades

Projects submitted must be the work of students. Student mentors and peers' involvement will be in supporting roles to support the student with the documentation (i.e., journalists, photographers, and guidance). To compete in the National Competition, the student will have to compete in the Chapter and Regional competitions.

STEM education. Chapters should provide a progression of courses or program of study that prepares students for building their projects. For successful engagement, participants may require developing more technical skills, including mathematics and science abilities.

Written Documentation. Documenting the development process in a log/journal is a fundamental part of the project development process. It involves fostering specific, descriptive writing skills. Participants must detail the method and challenges for their developmental process. Presentation could include classifying the types of project components (tools, design, software, language, and others).

Oral Presentation. Students will be required to give a 4- to 6-minute oral presentation at the chapter, regional, national competitions on their creative project and their educational journey. They can also display their projects during this time **if they desire**.

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2024 STEM

Student Competition

Competition General Rules

Provide these rules to all contestants

The official theme is: *"The Water Crisis in America, How do we Repair it?"* Students must understand the rules and guidelines of the STEM Competition. They should also be made aware of the guidelines for scoring.

The Blacks In Government STEM Competition is divided into three competition levels—Chapter, regional, and national. You must compete at the Chapter and regional level to compete at the national level. If a chapter or region has only ONE entrant, the chapter president or the regional council president (as appropriate) must submit a written endorsement to the Regional Chair or National Program and Planning Committee Chair (as appropriate). Chapters and Regions must also provide the judge's score sheets and master score sheet to the Regional Chair and National Program and Planning Committee Chair, as appropriate.

NATIONAL FIRST PLACE WINNERS ARE INELIGIBLE FOR FUTURE CONTESTS.

1. Contestants must be in grades 9 through 12 and must be in good academic standing.
2. Contestants must build innovative projects with guidance from SMEs/mentors.
3. Contestants must give a 4- to the 6-minute oral presentation on how they developed their project during the competition at the local, regional, and national levels.
4. Contestants not providing a presentation will be disqualified.
5. Birth certificate and a copy of an essay describing how students developed their project "MUST" be presented to the Chapter, Regional, and National Committee Chairs before the competition.

PROJECT

STEM Competition theme: *"The Water Crisis in America, How do we Repair it?"* The requirements take into account the scope and spirit of the competition. Participants will use technology to demonstrate a water system in action. The project will help students learn how to use logical and creative-thinking skills and create narratives. They will get practical experience with science and technology while exploring their creativity simultaneously.

All submissions must have creative, artistic, and educational value and be interactive, exciting, and appealing visually.

1. All submissions will be evaluated for creativity, visual presentation, and technical implementation to develop the project.
2. Projects will be no longer than 3 minutes long.
3. A 4 – 6-minute oral presentation is required. Every 15 seconds under 4 minutes or over 6 minutes will incur deductions from the overall score.

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2024 STEM

Student Competition

7. Students will be provided with their workspace. Each team will have access to one electrical plug for charging.
8. Practice time will be available preceding the competition.

Project Construction

Animations will be interactive narratives that tell a story and build an environment. Entries to the animation category will be judged 0:

1. **Innovation and Uniqueness:** How creative and unique is the story being told or the presentation's approach?
2. **Visual Presentation:**
 - How immersive is the world that has been created? An "immersive experience" pulls individuals into a new, augmented, or more engaging reality via technology. Creation requires using one or more technologies together. (Attachment 2)
 - How complex or impactful is the flow of the visual representation, camera movements, and general composition?
3. **Technical Implementation:**
 - How detailed is the technical implementation?
 - Does the entry make use of technical concepts to create the project?
 - Is the creativity observed, making it easy to understand?
 - Does the project make use of audio, video, and other technical tools and special effects?
4. **Usefulness:** Does the narrative educate, inform, or entertain?
5. **Oral:** 4- to 6-minute presentation

Project Compliance

1. Each entry must be original in concept, design, and execution and may not violate U.S. copyright laws. Any entry copied from an existing project, narrative, or image created by someone other than the contestant violates the competition rules and will not be accepted.
2. All projects will be inspected for compliance with the rules before the competition.
3. Failure to comply with the guidelines will result in disqualification.
4. Individuals who advance to a regional/national competition are allowed to make improvements to their projects.

BLACKS IN GOVERNMENT®

2024 STEM

Student Competition

Penalties

Each student will be penalized 10 points for the following reasons:

1. If the student fails to provide a 1- to 2-page written narrative describing how his or her project was developed.
2. If the student required written entry document does not follow the national guidelines for entry.
3. If the student entry does not relate to the current STEM Competition theme: "*The Water Crisis in America, How do we Repair it?*."

Disqualification

Students will be immediately disqualified for the following reasons, and they will not be able to resubmit their entry for reconsideration.

1. If any of the projects appear to have inappropriate or *plagiarized* content.
2. If the contestants do not provide a demonstration.
3. If the student's paperwork was not received by the required submittal date.

Protests

Individuals may challenge/protest a decision or rule interpretation of the youth competition during the *Chapter and Regional* competitions using the following guidelines:

1. In chapter competitions, the protestor must challenge a decision within 72 hours by notifying the Chapter Program and Planning Chair (CPPC). Once an opposition is made, the CPPC shall notify the contestants potentially impacted by the challenge/protest immediately.
2. If the challenger does not receive the answers required, a written appeal request must be sent via email to the Regional Program and Planning Chair (RPPC) within seven (7) days of the chapter's decision. The written appeal should include all the facts and arguments that would support reversing the decision. The RPPC will make a decision and email a response to the challenger within seven (7) days of receipt of the appeal.
3. If the RPPC fails to comply within seven (7) days or the challenger is unsatisfied with the response, the challenger has seven (7) days to forward the appeal to the National Program and Planning Chair (NPPC). Once the appeal is submitted to the national level, the NPPC will determine the appropriate chapter, regional, and national officers required to vet the challenge/protest on a case-by-case basis.
4. Protests made at the national competitions must be submitted by the Regional Program and Planning Chair (RPPC). The protestor must challenge a decision within 72 hours by notifying the National Program and Planning Chair (NPPC) in writing via email. The protest must be based on facts with documentation.

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2024 STEM

Student Competition

5. The decision made at the national level will be the final and binding decision. The NPPC will provide a written justification for the final decision to the challenger, CPPC, and the RPPC within seven (7) days of receipt.

STEM Competition Scoring Categories

Scoring procedures at all levels of the competition will be identical and based on a point system. Projects will be judged on five criteria: user interface design, creative interactivity, user experience, usefulness, and oral presentation. A team of three judges with technical and non-technical expertise will evaluate the demonstration. Before the presentations, judges will be allowed to interview each contestant for 10 minutes. The following point value of each category equals a possible 100 points:

CATEGORY	EXPLANATION	POINTS
1. Innovation and Uniqueness	The story being told or the approach of the presentation is unique. Creative and engaging content Strategic uses of technology (interactive software/tools).	30
2. Visual Presentation	The flow of the visual representation, camera movements, and general composition is impactful Connected events, actual or imaginary, presented in a logical sequence of moving images and special effects	20
3. Technical Implementation	Technical implementation is intricate Uses technology to simplify or structure the project Creativity makes it easy to understand the narrative/storyline Makes use of audio, video, and other technical features	15
4. Usefulness	Provides useful information (educational, informative, and entertaining)	15
5. Project Development Journal	Evidence of a design process Professionally organized and easy to understand	10
6. Oral presentation*	4- to 6-minute presentation on how they researched and developed their project	10
TOTAL		100

***Calculations Committee will deduct three (3) points for every 15 seconds under four (4) minutes or over six (6) minutes.**

BLACKS IN GOVERNMENT®

2024 STEM

Student Competition

ATTACHMENT 1: BIG STEM Virtual Competition Guidelines

SCHEDULE YOUR COMPETITION

- Schedule your competition at a time that works for all involved.
- Determine if you need people to register to attend. Registering can help you track who will attend your competition before it starts, how many joined, and follow-up communications after the competition.
- Get help by enlisting a competition team who can help you with logistics while students focus on delivering their orations.
- Make sure you have a communication plan, including promoting your competition on webpages, social media, and email.
- It helps to contact primary attendees and send reminders leading to the competition, including an hour before, so people remember to join on the competition day.

SCHEDULE A REHEARSAL

- Invite committee POCs, students, mentors, timekeeper, calculators, and judges to the **rehearsal**. Have someone act as an attendee to assess the experience.
- Have students and committee members connect in the same manner from the same location and device used for the live event.
- Test everyone's audio. Assign someone to control muting.
- Videotape the rehearsal. Share video in the rehearsal to ensure participants can be seen and heard clearly. Adjust lighting if needed, and have them remove distracting items from their background.
- Have all students test content sharing and any multi-media sharing from the same device they will use in the competition.
- Check the timing, transitions, and interactive features you will use.

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2024 STEM

Student Competition

ROLES AND RESPONSIBILITIES

- The host role is usually assigned to the person who starts the competition. The host needs to have a user account. Others will be invited
- Assign an MC to welcome attendees, introduce speakers, keep time, and manages interactive features.
- You can also assign a person that will grant privileges to attendees, students, and judges, and end the competition.
- Discuss logistics and etiquette, like identifying when presenters mute or unmute, and how comments and questions will be handled.
- If you are assigning other presenters, practice these specific activities in your rehearsal.

DAY OF THE COMPETITION

STEM Project Judging:

- Schedule the STEM project judging before their presentations. Only allow committee members, STEM students, mentors, judges, calculators, and timekeeper

DAY OF PRESENTATIONS (STEM AND ORATORICAL STUDENTS)

- Regional or chapter committee chairs should assign numbers for presenters by pulling names from a bag. Notify students of their numbers. Rules in guidelines still apply concerning sharing personal information.
- All participants should join 15-30 minutes early to allow testing their connection on the day.
- Distribute electronic programs and rules of engagement documents before the competition. That way, attendees will not be left out if they cannot see the presentation or need to join via audio-only because of low bandwidth.

GO LIVE

- Welcome attendees and announce that the call will be starting in x amount of minutes.
- Go over the rules of engagement for attendees like muting and opportunities they will have to comment on.
- Tell your audience if you will be sharing your content and recording after the competition.

AFTER THE COMPETITION

- Plan to stay in the virtual competition after the scheduled time has concluded to answer additional questions and save chat panels for post-competition follow-up.
- Make available the recording links or shared content from the competition.

ATTACHMENT 2: Technology Suggestions

NAME	DESCRIPTION	URL	COST
NCH Software	YouTube Video Media	https://www.nchsoftware.com/software/video.html	Free
Storyblocks	Includes libraries of already existing videos with opportunities to combine and create own unique project	https://www.storyblocks.com/video -	Free
Vimeo	Similar to YouTube	https://vimeo.com/	Free
Filmora Video Editor	Create & edit your videos just in minutes	https://www.iskysoft.us/lp/filmora-video-editor/bing.html?msclkid=1e6df033507a196e98daafee36765845&utm_source=bing&utm_medium=cpc&utm_campaign=FilmoraWin_SS_US_pid(1598)%2BRlsa_Bing&utm_term=video%20creator%20free%20download&utm_content=video%20creator-Windows	Free
Video Editor	Video and audio editor	http://www.videosoftdev.com/	Free
SKETCHAR's	SketchAR is an AI-based mobile app and a platform for developing people's creativity through the unique interactive approach of AR drawing, photo editing, and gamification.	Enhance your creativity using AI+AR (sketchar.tech)	Free
The 9 Best Coding Games to Build Your Programming Skills	Coding games help you learn faster with hands-on practice and experience. Plus, they are a fun way to test your programming skills!	The 9 Best Coding Games to Build Your Programming Skills (makeuseof.com)	Free
Adobe Premiere Pro	Turn raw footage into flawless productions with the industry-leading video editing software.	https://www.adobe.com/products/premiere.html	Cost

NOTE: This list is not all-inclusive. Participants are encouraged to use whatever technology will bring their water system into an immersive environment.

**BLACKS IN GOVERNMENT
Official Entry Form for STEM Competition**

PLEASE PRINT

Contestant Information

Name _____ Address _____

City _____ State _____ Zip Code _____

Grade _____ School _____

Home Phone _____ Cell Phone _____

E-Mail Address _____

Statement of Conformity to Rules

I have studied the Official Rules of the STEM competition and fully understand and agree to be bound by them. I understand that the final ruling on all protests will be made by the Competition Chairperson.

Contestant's Signature _____ Date _____

**The following is to be completed by the Chapter
President and STEM Competition Chairperson**

Chapter Statement

We submit the enclosed entry form in full compliance with the Official Rules of the STEM Competition

Chapter Name _____

Chapter President (Signature) _____

Phone _____

E-mail Address _____

Chapter STEM Chair (Signature) _____

Home Phone _____ Work Phone _____

Address _____

E-Mail Address _____

Regional Council Statement

We submit the enclosed entry form in full compliance with the Official Rules of the STEM Competition

Regional Council (i.e., Region I) _____

Council President (Signature) _____

Phone _____

E-mail Address _____

Regional STEM Chair (Signature) _____

Home Phone _____ Work Phone _____

Address _____

E-mail Address _____

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