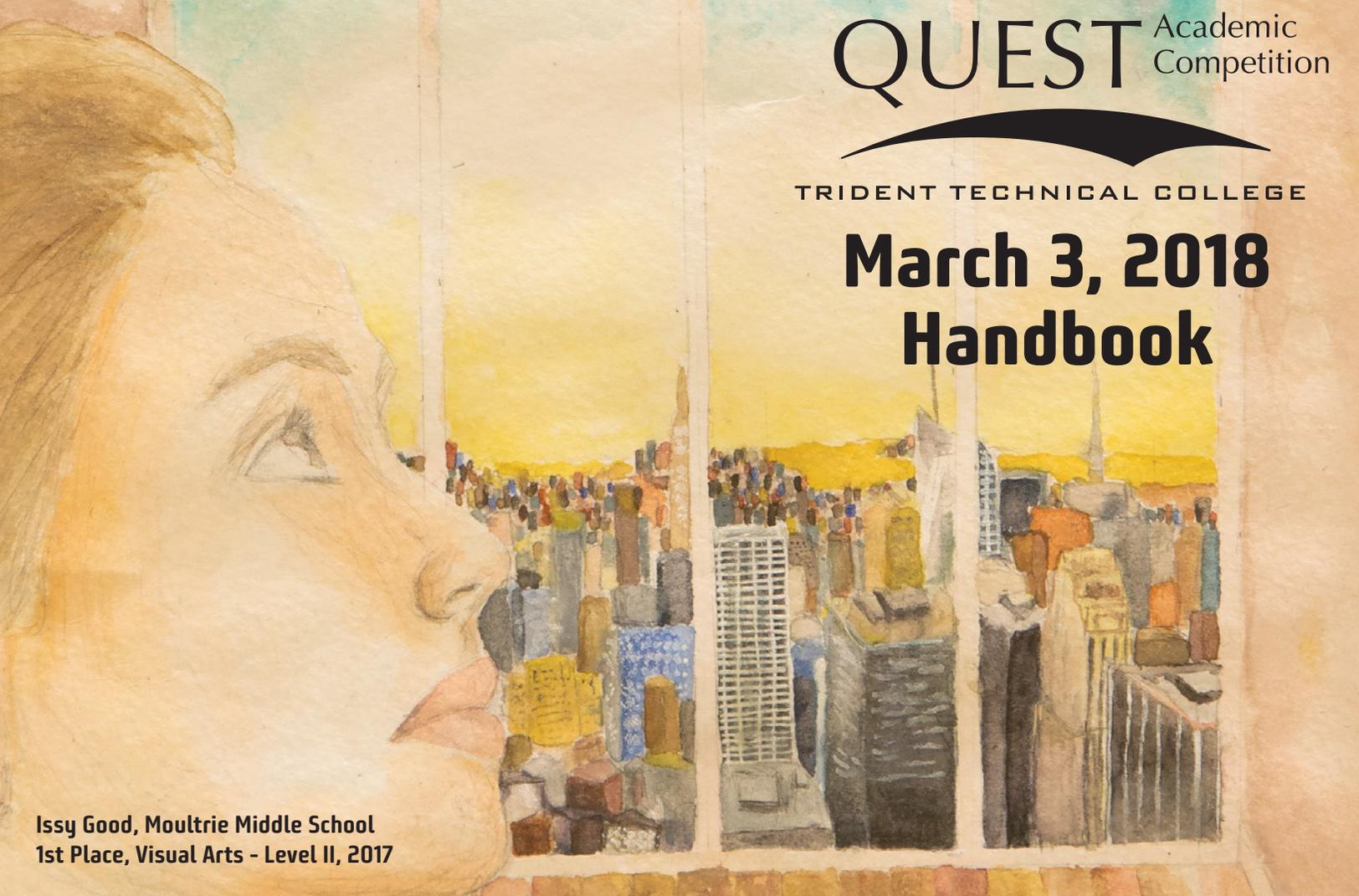




QUEST Academic
Competition

TRIDENT TECHNICAL COLLEGE

March 3, 2018
Handbook



QUEST Academic Competition



TRIDENT TECHNICAL COLLEGE

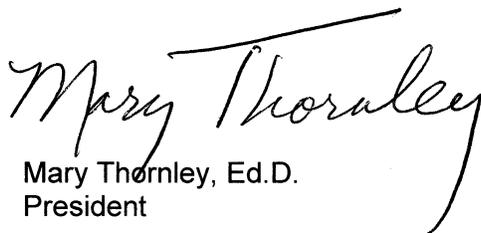
QUEST: *TTC's Academic Competition*

- *promotes academic excellence*
- *provides an academic challenge to students*
- *recognizes students, teachers and schools that excel in academic areas*

The faculty and staff of Trident Technical College invite your school to participate in the thirty-second annual QUEST: *TTC's Academic Competition* to be held on Saturday, March 3, 2018.

The competition, which will be held on our Main Campus, is open to Berkeley, Charleston and Dorchester public school students in grades 6 - 12.

Please join us on March 3, 2018, for a day of challenge, fun and recognition. Good luck to all participants!


Mary Thornley, Ed.D.
President


Catharine D. Almquist, D.M.
Vice President, Academic Affairs

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I. ROSTER OF ELIGIBLE SCHOOLS

(Berkeley, Charleston and Dorchester Counties - By Level)

Only Level I (Grade 6)	
Charleston Progressive Academy Cross Elementary School James Simons Elementary School	
Level I (Grade 6) & Level II (Grades 7-8)	
Advanced Studies at Haut Gap Middle School Advanced Studies Magnet – West Ashely Alston Middle School ARMS Boys’ Academy at Morningside Middle Berkeley Middle School Buist Academy for Advanced Studies Cane Bay Middle School Camp Road Middle School Cape Romain Environmental Education Charter School C.E. Williams Middle School for Creative & Scientific Arts Charleston Development Academy College Park Middle School Daniel Island School Deer Park Middle School DuBose Middle School East Cooper Montessori School EXCEL Girls’ Academy at Morningside Middle Gregg Middle School Hanahan Middle School Harleyville-Ridgeville Middle School Jerry Zucker Middle School of Science	Laing Middle School of Science and Technology Macedonia Middle School Malcom C. Hursey Elementary School Marrington Middle School of the Arts Montessori Community School of Charleston Moultrie Middle School Northwoods Middle School Oakbrook Middle School Odyssey Educational Center Orange Grove Middle School Philip Simmons Middle School River Oaks Middle School Rollings Middle School of the Arts Sangaree Middle School Sedgefield Middle School St. George Middle School St. Stephen Middle School Simmons Pinckney Middle School Thomas C. Cario Middle School Westview Middle School
Levels III (Grades 9-10) and IV (Grades 11-12)	
Academic Magnet High School Allegro Charter School Ashley Ridge High School Berkeley High School Berkeley Middle College Burke High School Cane Bay High School Dorchester County Career & Technology Center Early College High School Fort Dorchester High School Garrett Academy of Technology Greg Mathis Charter High School Goose Creek High School	Hanahan High School James Island Charter High School North Charleston High School Oceanside Collegiate Academy Philip Simmons High School R.B. Stall High School St. John’s High School Stratford High School Summerville High School Timberland High School Wando High School West Ashley High School Woodland High School
Levels I (Grade 6), II (Grades 7-8), III (Grades 9-10) and IV (Grades 11-12)	
Baptist Hill Middle/High School Berkeley Alternative School Charleston Charter School for Math & Science Charleston County School of the Arts Cross High School	Daniel Jenkins Academy Liberty Hill Academy Military Magnet Academy Palmetto Scholars Academy

II. AREAS OF COMPETITION

Eligible schools may compete in the following areas:

SCHOOL COMPETITIONS

Points awarded in these competitions contribute to the schools' overall scores for each level.

Level I (Grade 6)	Level III (Grades 9 - 10)
Composition Mathematics Public Speaking Science Social Studies Visual Arts	Composition Mathematics Public Speaking Science Social Studies Visual Arts
Level II (Grades 7 - 8)	Level IV (Grades 11 - 12)
Composition Mathematics Public Speaking Science Social Studies Visual Arts	Composition Mathematics Public Speaking Science Social Studies Visual Arts

SPECIAL COMPETITIONS

Points awarded in these competitions DO NOT contribute to the schools' overall scores for each level. Please refer to competition guidelines for specific eligibility requirements.

Automotive Computer Aided Design (CAD) Computer Programming Culinary Arts Engineering Design & Construction French I	French II Horticulture Spanish I Spanish II Video /Film Welding
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III. REGISTRATION INFORMATION

Schools competing in QUEST: TTC's Academic Competition must:

1. Choose areas in which they will compete.
2. Select team members and coaches.
3. Ensure that team members and coaches understand and follow rules governing the competition.

4. Ensure that students meet all rules pertaining to participation.
5. Each school has a QUEST Coordinator assigned by the principal. Ensure the school's QUEST coordinator registers students and coaches online at http://www.tridenttech.edu/academics/quest/ac_questReg.htm by **WEDNESDAY, FEBRUARY 7, 2018**. Include special needs of students with disabilities. The online rosters will be used for creating QUEST Certificates and publishing QUEST Competition results. Please insure names are spelled accurately.
6. Ensure all potential participants have submitted a signed Release of Liability form to TTC in the postage-paid envelope provided before **FRIDAY, FEBRUARY 16, 2018**. The Release of Liability form is online at <http://www.tridenttech.edu/academics/quest/index.htm>. **Students without a signed Release of Liability form will not be eligible to participate.**
7. Ensure that coaches officially check in participants at the QUEST check-in desk in the lobby of Building 920 on the day of competition.
8. The cost of participation in QUEST is as follows: Level I and Level II is \$60 per level and Level III and Level IV is \$75 per level. Once you have registered all students, you will find your billing/payment information online at http://www.tridenttech.edu/academics/quest/ac_questReg.htm under "Competition Invoice." A credit card payment option is available online through the "Competition Invoice."

IV. GENERAL INFORMATION AND GUIDELINES

Students may participate in only one event.

1. School Competitions

In **Composition**, the competition is individual, with a school entering one participant per level.

In each level of **Math**, **Science** and **Social Studies**, a school competes as a team with 1-3 members.

In **Public Speaking**, the competition is individual, with a school entering up to two participants per level.

In **Visual Arts**, the competition is individual, with a school entering up to two participants per level. Due to the nature of this competition, no alternates will be allowed.

2. Special Competitions

In **Automotive**, the competition is individual, with a high school entering up to two participants from grades 10-12.

In **Engineering Design & Construction**, a high school may enter up to two teams of 1-3 members for each team from grades 9-12. Due to the nature of this competition, no alternates will be allowed.

In **Computer Aided Design (CAD)** and **Horticulture**, the competition is individual, with a high school entering up to three participants from grades 9-12.

In **Computer Programming** and **Culinary Arts**, a high school competes as a team with 1-3 members from grades 9-12.

In **Spanish** and **French**, the competition is individual, with a school entering up to two participants per level.

In **Video/Film**, a high school may enter up to two entries and entries may be submitted by individual participants or as a team of up to four participants from grades 9-12.

In **Welding**, the competition is individual, with a high school entering up to three participants from grades 10-12.

3. Students taking algebra in the 8th grade may compete in Level II Math.

In Math Level III, students from grades 9-12 who are currently enrolled in or whose last course completed was Geometry, Algebra I, Algebra II or General Mathematics may compete. Any points accumulated will be added to the other Level III (Grades 9-10) scores in order to determine school winners.

In Math Level IV, students from grades 9-12 currently enrolled in or whose last course completed was trigonometry or calculus may compete. Any points accumulated will be added to the other Level IV (Grades 11-12) scores in order to determine school winners.

4. In French I, students from grades 8-12 currently enrolled in or whose last course completed was French I may compete. In Spanish I, students from grades 8-12 who are currently enrolled in or whose last course completed was Spanish I may compete.

In French II, students from grades 9-12 currently enrolled in or whose last course completed was French II may compete. In Spanish II, students from grades 9-12 currently enrolled in or whose last course completed was Spanish II may compete.

5. All participants must wear the official QUEST t-shirt to participate with the exception of the Culinary participants. (See guidelines for Culinary competitions.)
6. All competitions will begin promptly as scheduled. **ANY STUDENT WHO IS LATE WILL NOT BE ALLOWED TO PARTICIPATE IN THE EVENT.** The competition beginning and ending times will be determined by the proctor, coordinator or moderator. This period will fall into the time assigned to the event. A Schedule of Events will be provided in the QUEST Program.
7. Coaches and guests are not permitted in the room at any time during a qualifying or individual competition with the exception of Video/Film, Visual Arts and Engineering Design & Construction.
8. All competitions must cease when the proctor, coordinator or moderator calls time. Violation will result in disqualification of the team or individual from that event.
9. No recorders, cameras or phones are allowed in competition rooms. However, Trident Technical College reserves the right to photograph or videotape for promotional purposes.
10. To minimize disruptions and protect the integrity of QUEST: *TTC's Academic Competition*, activated electronic communication devices such as pagers, phones and PDAs are not permitted in competition rooms, display areas or award ceremonies at Trident Technical College.
11. If a participant leaves a competition room for any reason after testing begins, he/she will not be allowed to return to the competition room and must turn in his/her competition materials prior to leaving. However, the participant will not be disqualified.
12. No food or drinks are allowed in any classroom or lab. Smoking is prohibited inside buildings. In addition, the following are prohibited on TTC's campuses: firearms of any kind, alcoholic beverages and animals. Guide dogs for the visually impaired and for the hearing impaired are exempt from this prohibition.

13. All appeals must be made to the Grievance Committee by a school coach, principal or the school's QUEST coordinator within 15 minutes of the conclusion of an event. Decisions concerning appeals will be made by the Grievance Committee and will be final. Grievances may be filed at the check-in station.
14. If it is necessary to postpone the competition because of inclement weather or emergency, radio and television stations will be notified. Information may also be obtained from the College's website at www.tridenttech.edu or from TTC's Automated InfoLine at 843.574.6262, extension 9091.

V. CHECK-IN PROCEDURES

1. Upon arrival, coaches should report to the Check-In Center (Building 920-College Center) to check-in and verify a team roster **AT LEAST 30 MINUTES BEFORE THE TIME OF THE COMPETITION.**

The Check-In Center will be open from 6:30 a.m. until 3:00 p.m. to handle registration and special problems. Student participants should not come to the Check-In Center; students may not register themselves.

2. During the day of the competition, if a serious emergency warrants a change to the roster, the coach or the school's QUEST coordinator must come to the Check-In Center **AT LEAST 30 MINUTES BEFORE THE TIME OF THE COMPETITION** to request a change. Emergency changes to the roster will only be allowed for QUALIFYING or INDIVIDUAL competitions excluding Engineering Design & Construction, Video/Film and Visual Arts. Schools may not add any new students on the day of QUEST who have not already been registered on the QUEST website prior to the registration deadline (http://www.tridenttech.edu/academics/quest/ac_questReg.htm). If it is found that a student who is not on the official roster has participated in a competition, his/her school may be disqualified from that competition.

No student may compete in a FINAL competition if he/she has not competed in the qualifying round.

3. Please check the Schedule of Events for the beginning time and location for each event. Participants should be seated in the room 15 minutes before the competition begins. We ask that you arrive early so that rosters can be confirmed and participants can find their appropriate rooms.

VI. AWARDS

1. Individual Awards - All students who compete in both SCHOOL and SPECIAL competitions will receive a certificate of participation and an official QUEST T-shirt (*which must be worn while competing, with the exception of the Culinary participants*).

All participants placing first, second or third in SCHOOL or SPECIAL competitions will be awarded medallions.

2. School Awards - Throughout the day, schools will accumulate points for placing first, second or third in the following SCHOOL competitions:

Math
Science
Social Studies

→

First Place	-	FORTY (40) points
Second Place	-	TWENTY-FIVE (25) points
Third Place	-	TEN (10) points

Composition
Public Speaking
Visual Arts

→

First Place	-	THREE (3) points
Second Place	-	TWO (2) points
Third Place	-	ONE (1) point

At the end of the day, points will be totaled for each level of competition to determine the first, second and third place school winners. For each level of competition, plaques will be awarded to the second and third place winners, and a trophy will be awarded to the first place winner.

3. Upon the conclusion of each Awards Ceremony, all students placing first, second or third in SCHOOL or SPECIAL competitions should remain in the area (Building 920-College Center) to have their photographs taken by Trident Technical College personnel.
4. Medallions, plaques and trophies will be awarded at the two Awards Ceremonies held in Building 920-College Center.

Levels I (<i>Grade 6</i>) and II (<i>Grades 7-8</i>)	1:00 p.m.
Levels III (<i>Grades 9-10</i>) and IV (<i>Grades 11-12</i>)	3:30 p.m.

5. Results of the qualifying competitions in Math, Science and Social Studies will be posted electronically in the Quest Nest. Results of all other competitions will be announced during the Awards Ceremonies. In addition, a listing of the overall QUEST school winners will be available through TTC's website at <http://www.tridenttech.edu> at the conclusion of each awards ceremony.

VII. SCHOOL COMPETITION GUIDELINES

A. COMPOSITION

SCHOOL COMPETITION (*Medallions awarded to winners; points awarded to schools*)

1. PARTICIPANTS

Each school will be allowed one individual participant per level.

2. PROCEDURES

- A. The actual time for the competition at each level will be one hour. Additional time is allowed for dissemination of topic cover sheets, paper and pencils.
- B. Proctors will determine the exact beginning and ending times for the one hour writing period. This period will fall within the hour and fifteen minutes assigned to the event.
- C. Proctors may not answer participants' questions after the one hour writing period has begun.
- D. Participants will write on an assigned topic. Two (2) choices will be given. No resources may be used. Scoring will be determined using the National Council of Teachers of English guidelines for its "Achievement Awards in Writing" program.

3. ACADEMIC LIMITS

Level I (<i>Grade 6</i>)	Level II (<i>Grades 7 - 8</i>)
Students will be asked to write a descriptive paragraph.	Students will be asked to write a narrative essay.
Level III (<i>Grades 9 -10</i>)	Level IV (<i>Grades 11 - 12</i>)
Students will be asked to write an expository essay.	Students will be asked to write a persuasive essay.

4. EVALUATION

National Council of Teachers of English (NCTE) Guidelines

In evaluating the pieces of writing, judges will consider the effectiveness of each piece in terms of its own purpose. They should answer for themselves such questions as these:

- Does the student show some depth of thought in the quality and presentation of ideas?
- Even if the thought is relatively commonplace, has the student made the idea his or her own?
- Is the student clear about subject and audience?
- In exposition, does the student demonstrate logical thinking?
- Does the student guide readers through the main points of the paper with appropriate transitions and illustrations?
- Does the student provide sufficient detail and examples to convince the reader?
- In more imaginative writing, does the student maintain consistent patterns of detail?
- Does the student demonstrate a command of sentence structure?
- Does the student show a command of vocabulary and use a variety of sentence patterns?
- Does the student demonstrate specificity, aptness, and freshness in the use of language?

5. OVERALL WINNERS

All winners for these competitions will be announced at the appropriate Awards Ceremony.

ALL NOTES TAKEN BY PARTICIPANTS WILL BECOME THE PROPERTY OF TRIDENT TECHNICAL COLLEGE AND WILL NOT BE RETURNED. NO RECORDERS, CAMERAS OR ACTIVATED ELECTRONIC COMMUNICATION DEVICES ARE ALLOWED IN THE COMPETITION. TRIDENT TECHNICAL COLLEGE RESERVES THE RIGHT TO PHOTOGRAPH OR VIDEOTAPE FOR PROMOTIONAL PURPOSES.

B. MATHEMATICS

SCHOOL COMPETITION (*Medallions awarded to winners, points awarded to schools*)

1. PARTICIPANTS

Each school will be allowed a team of 1-3 participants per level.

2. AREAS OF COMPETITION (*percentages given are approximate*)

Level I (<i>Grade 6</i>)	Level III (<i>Grades 9-10</i>)
25% Number and numeration systems 15% Numerical and algebraic concepts and operations 15% Patterns, relationships, and functions 15% Geometry and spatial sense 15% Measurement 15% Probability and statistics	30% Geometry 30% Algebra I 30% Algebra II 10% Miscellaneous Mathematical Topics
Level II (<i>Grades 7-8</i>)	Level IV (<i>Grades 11-12</i>)
25% Numerical and algebraic concepts and operations 15% Number and numeration systems 15% Patterns, relationships, and functions 15% Geometry and spatial sense 15% Measurement 15% Probability and statistics	30% Algebra 25% Geometry 20% Trigonometry 15% Calculus 10% Miscellaneous Mathematical Topics

3. PROCEDURES

A. QUALIFYING COMPETITION

A qualifying test will be administered to all teams. Each team will be given test copies for all team members and one official team answer sheet. No calculators may be used in Levels I and II. In Levels III and IV, each competitor should bring a scientific/graphic calculator. No computer algebra systems (symbolic manipulation calculators) will be allowed. Graphic calculators similar to the TI-83, TI-84, TI-85, or TI-86 can be used. Excluded calculators include the TI-89 and TI-92 and others that operate similarly. Also, personal communication devices such as cellular phones, pagers and other text messaging devices are prohibited in the competition rooms. Questions about any other calculator should be directed to Cara Smyczynski, Department Head of Mathematics, at cara.smyczynski@tridenttech.edu. Trident Technical College will provide paper and pencils.

Each team will have thirty (30) minutes to complete the team answer sheet. Proctors will determine the exact beginning and ending times for the thirty (30) minute testing period. This period will fall within the forty-five (45) minutes assigned to the event. Team members may work together or divide the test among them. However, only the official team answer sheet will be used to determine the team score.

In Levels I and II, the majority of the test questions will be multiple choice and the remaining will be open ended. In Levels III and IV, all of the test questions will be open ended. All questions count equally unless there is a tie. There will be no penalty for guessing. The score will be the number of correct answers.

TIE BREAKER

Several questions throughout the test have been designated as tie breakers. In the event of a tie, the number of correctly answered tie breakers will be used to determine the highest scoring teams.

B. FINAL COMPETITION

Based on the results of the qualifying competition, the final competition will be held among the three highest scoring teams to determine first, second and third place. The time limit for this competition will be approximately thirty (30) minutes, and the competition will be open to the public. Once the competition has begun, people may leave the room but may not re-enter until the competition concludes.

The moderator will determine the exact beginning and ending time for the thirty (30) minute final competition. This period will fall within the forty-five (45) minutes assigned to the event.

No calculators may be used in Levels I and II. In Levels III and IV, each team member should bring a scientific/graphic calculator. No computer algebra systems (symbolic manipulation calculators) will be allowed. Graphic calculators similar to the TI-83, TI-84, TI-85, or TI-86 can be used. Excluded calculators include the TI-89 and TI-92 and others that operate similarly. Also, personal communication devices such as cellular phones, pagers and other text messaging devices are prohibited in the competition rooms. Questions about any other calculator should be directed to Cara Smyczynski, Department Head of Mathematics, at cara.smyczynski@tridenttech.edu. Trident Technical College will provide paper and pencils.

In the final competition, teams will compete using buzzer systems. The moderator will read a question and will cease talking immediately when a team member pushes his/her buzzer. If the correct answer is not provided within five (5) seconds, the other two teams will have a chance to buzz in. The moderator will reread a question only when the original reading was interrupted by the buzzer. **A team may only buzz in once for each question.** The total amount of time allowed for any team to buzz in is sixty (60) seconds.

If no team buzzes in within sixty (60) seconds, "time" will be called and the moderator will continue to the next question. If the moderator determines that no attempt is being made by any team to answer a question, he/she may discard that question and continue the competition.

The student who pushes the buzzer must provide the answer before his/her light goes out [within five (5) seconds] but may confer with his/her team members before pushing the buzzer. No prompting by other team members will be allowed once the student has pushed the buzzer.

Each correct answer is worth ten (10) points.

A five (5) point penalty will be assessed each time a buzzer is accidentally pushed during the competition or for giving a wrong answer to a question. Holding a buzzer down will automatically lock a team out.

In the event the moderator is uncertain of a participant's answer, he/she will ask for a decision from the judges. All decisions by the judges will be final.

A ten (10) point penalty will be assessed by the judges or the moderator for each act of unsportsmanlike conduct or interruptions by a team member or coach. If a team member is found to be cheating, the team member will automatically be disqualified. However, the remaining team members may compete.

In the event a competition ends in a tie, there will be a three (3) minute overtime. In the event of equipment malfunction, the competition will be completed by reading questions alternately to each team. If a team does not answer or answers incorrectly, that question will be discarded, and the next team will be asked a new question. Points will be awarded for correct answers, but no penalty will be given for incorrect answers.

All winners for these competitions will be announced at the appropriate Awards Ceremony.

All spectators in these final competitions are asked to remain quiet and will be asked to leave if they disrupt the competition in any way. This includes gesturing to the participants.

ALL NOTES TAKEN BY PARTICIPANTS WILL BECOME THE PROPERTY OF TRIDENT TECHNICAL COLLEGE AND WILL NOT BE RETURNED. NO RECORDERS, CAMERAS OR ACTIVATED ELECTRONIC COMMUNICATION DEVICES ARE ALLOWED IN THE COMPETITION. TRIDENT TECHNICAL COLLEGE RESERVES THE RIGHT TO PHOTOGRAPH OR VIDEOTAPE FOR PROMOTIONAL PURPOSES.

C. PUBLIC SPEAKING

SCHOOL COMPETITION (*Medallions awarded to winners; points awarded to schools*)

1. PARTICIPANTS

Each school will be allowed up to two individual participants per level.

The public speaking competition rooms are not available for participants to use for practice purposes at any time.

All spectators are asked to remain quiet during the competition and will be asked to leave if they disrupt the competition in any way. Any participant who is asked to leave will be disqualified from the competition.

2. TOPIC

Levels I and II:

Participants will deliver an extemporaneous self-prepared speech on an assigned subject. The subject for public speaking participants in grades 6-8 is:

Currently books can be checked out and read online, and research conducted through the internet. Will there ever be a time when the school library becomes obsolete? Defend your position.

Levels III and IV:

Participants will deliver an extemporaneous self-prepared speech on an assigned subject. The subject for public speaking participants in grades 9-12 is:

During recent NFL games, some players refused to stand during the playing of the National Anthem as a form of protest. Many student athletes attend college on scholarships. Should student athletes be allowed to peacefully protest during the playing of the National Anthem? Why or why not?

3. PROCEDURES

Students may not speak from a manuscript. **Only ONE 5" x 8" (or smaller) note card may be used during the speech.** Students using more than one 5" x 8" note card will be disqualified.

Participants will deliver an extemporaneous speech based on their understanding and investigation of the assigned subject. The length of the speech is two (2) to four (4) minutes. At the end of two (2) minutes the speaker will be given a cue. At the end of four (4) minutes the student will be cued and the speech stopped at the conclusion of the sentence. The student is expected to speak for 2-4 minutes.

4. CRITERIA

- A. Topic - A clearly focused appropriate thesis is presented.
- B. Content - The thesis is supported with clear reasoning and evidence. The content is substantive. Facts, testimony, examples and/or narratives are used to illustrate and develop the thesis.
- C. Organization - A clear pattern or framework structures the material of the speech. Introduction, body and conclusion are included. Transitions are smooth and effective. The speech is unified and coherent.
- D. Language - The language is standard or idiomatic as appropriate. Vocabulary is appropriate and clear. Grammar is used correctly. Fillers such as "okay," "you know" and "uh" are not to be used.
- E. Delivery - Both vocal and physical attributes contribute to delivery. The speaker's voice is appropriate and varied in pitch, rate and volume. The voice is fluent, audible and expressive. Enunciation is clear. The speech has been rehearsed, but does not sound memorized or read.

Delivery is extemporaneous. Posture and gestures enhance the speech. Eye contact is maintained with the audience throughout the speech.

- F. Time - For the timing component, speeches which fall within two (2) to four (4) minutes receive the maximum five (5) points. Speeches which fail to fall within the two (2) to four (4) minute time frame receive the minimum 1 point.

5. EVALUATION

A numerical rating from 1 - 5 will be awarded to each speaker on the first five criteria described above (Topic, Content, Organization, Language and Delivery). A numerical rating of 5 or 1 will be awarded for the time criterion.

5. *Outstanding*
4. *Superior*
3. *Good*
2. *Average*
1. *Poor*

TIPS FOR PARTICIPANTS

- When determining your topic, brainstorm for ideas relating to the assigned subject.
- Consider your own experiences, interviews, current publications and classroom discussions among your possible sources.
- Construct an outline of main ideas and supporting points rather than writing out the entire speech. Working from an outline makes the speech spontaneous and allows good eye contact. Writing the entire speech encourages both reading and memorization which will be penalized in the delivery portion of the criteria. Strive for extemporaneous, conversational style.
Only one 5" x 8" note card can be used during the speech.
- Practice your speech so it will meet the time requirements.
- Develop an attention-getting opener and conclude with a lasting thought.
- Public speaking competitions generate a great deal of tension. To reduce this, practice as much as possible speaking before classmates and other groups. Think of the audience as friendly and interested. Build self-confidence.
- Work to cut down on fillers such as "you know," "ok" and "uh."
- Strive to use correct grammar.
- Do not include your name or the name of your school in the speech.
- Plan to cite sources within your speech.
- Make the speech your own creative product by using several sources and your own unique approach to the material.
- Visual aids are permitted but not required. Participants should be cautioned that too many poorly planned and/or poorly executed visual aids may detract from the speech rather than enhance it. Visual aids that require a darkened room or an electrical power source are not permitted.

6. OVERALL WINNERS

All winners for these competitions will be announced at the appropriate Awards Ceremony.

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D. SCIENCE

SCHOOL COMPETITION (*Medallions awarded to winners; points awarded to schools*)

1. PARTICIPANTS - Each school will be allowed a team of 1-3 participants per level.
2. AREAS OF COMPETITION (*percentages given are approximate*)

Level I (<i>Grade 6</i>)	Level III (<i>Grades 9-10</i>)
50% Physical Science 25% Life Science 25% Earth Science	35% Physical Science 35% Biology 15% General Science 15% Earth Science
Level II (<i>Grades 7-8</i>)	Level IV (<i>Grades 11-12</i>)
50% Life Science 50% Earth Science	40% Biology 30% Chemistry 30% Physics

3. PROCEDURES

A. QUALIFYING COMPETITION

A qualifying test will be administered to all teams. Each team will be given test copies for all team members and one official team answer sheet. **No calculators may be used.** Trident Technical College will provide paper, pencils and a periodic table of the elements.

Each team will have thirty (30) minutes to complete the team answer sheet. Proctors will determine the exact beginning and ending times for the thirty (30) minute testing period. This period will fall within the forty-five (45) minutes assigned to the event. Team members may work together or divide the test among them. However, only the official team answer sheet will be used to determine the team score.

The qualifying test questions will be multiple choice. All questions count equally unless there is a tie. There will be no penalty for guessing. The score will be the number of correct answers.

TIE BREAKER

Several questions throughout the test have been designated as tie breakers. In the event of a tie, the number of correctly answered tie breakers will be used to determine the highest scoring teams.

B. FINAL COMPETITION

Based on the results of the qualifying competition, the final competition will be held among the three highest scoring teams to determine first, second and third place. The time limit for this competition will be approximately thirty (30) minutes, and the competition is open to the public.

Once the competition has begun, people may leave the room but may not re-enter until the competition concludes.

The moderator will determine the exact beginning and ending time for the thirty (30) minute final competition. This period will fall within the forty-five (45) minutes assigned to the event.

No calculators may be used. Trident Technical College will provide paper, pencils and a periodic table of the elements.

In the final competition, teams will compete using buzzer systems. Unless otherwise stated, ten (10) seconds will be allowed for participants to buzz in before the moderator moves on to the next question.

The moderator will read a question and will cease talking immediately when a team member pushes his/her buzzer. If the correct answer is not provided within five (5) seconds, the other two teams will have a chance to buzz in. The moderator will reread a question only when the original reading was interrupted by the buzzer. **A team may only buzz in once for each question.**

The student who pushes the buzzer must provide the answer before his/her light goes out [within five (5) seconds] but may confer with his/her team members before pushing the buzzer. No prompting by other team members will be allowed once the student has pushed the buzzer.

All correct answers will be worth ten (10) points.

A five (5) point penalty will be assessed each time a buzzer is accidentally pushed during the competition or for giving a wrong answer to a question. Holding a buzzer down will automatically lock a team out.

In the event the moderator is uncertain of a participant's answer, he/she will ask for a decision from the judges. All decisions by the judges will be final.

A ten (10) point penalty will be assessed by the judges or the moderator for each act of unsportsmanlike conduct or interruptions by a team member or coach. If a team member is found to be cheating, the team member will automatically be disqualified. However, the remaining team members may compete.

In the event a competition ends in a tie, there will be a three minute overtime. In the event of equipment malfunction, the competition will be completed by reading questions alternately to each team. If a team does not answer or answers incorrectly, that question will be discarded, and the next team will be asked a new question. Ten (10) points will be awarded for correct answers, but no penalty will be given for incorrect answers. Detailed analysis questions will not be included.

All winners for these competitions will be announced at the appropriate Awards Ceremony.

All spectators in these final competitions are asked to remain quiet and will be asked to leave if they disrupt the competition in any way. This includes gesturing to the participants.

ALL NOTES TAKEN BY PARTICIPANTS WILL BECOME THE PROPERTY OF TRIDENT TECHNICAL COLLEGE AND WILL NOT BE RETURNED. NO RECORDERS, CAMERAS OR ACTIVATED ELECTRONIC COMMUNICATION DEVICES ARE ALLOWED IN THE COMPETITION. TRIDENT TECHNICAL COLLEGE RESERVES THE RIGHT TO PHOTOGRAPH OR VIDEOTAPE FOR PROMOTIONAL PURPOSES.

E. SOCIAL STUDIES

SCHOOL COMPETITION (*Medallions awarded to winners; points awarded to schools*)

1. PARTICIPANTS – Each school will be allowed a team of 1-3 participants per level.
2. AREAS OF COMPETITION (*percentages given are approximate*)

Level I (Grade 6)	Level III (Grades 9-10)
60% Ancient Cultures to 1600 30% U.S. History 10% Geography	60% Global Studies 20% U.S. History 20% Geography & Current Events
Level II (Grades 7-8)	Level IV (Grades 11-12)
40% Contemporary Cultures since 1600 40% SC & U.S. History 20% Geography & Current Events	30% U.S. History & Constitution 30% U.S. Government & Economics 20% Global Studies 20% Geography & Current Events

3. PROCEDURES

A. QUALIFYING COMPETITION

A qualifying test will be administered to all teams. Each team will be given test copies for all team members and one official team answer sheet. Trident Technical College will provide paper and pencils.

Each team will have thirty (30) minutes to complete the team answer sheet. Proctors will determine the exact beginning and ending times for the thirty (30) minute testing period. This period will fall within the forty-five (45) minutes assigned to the event. Team members may work together or divide the test among them. However, only the official team answer sheet will be used to determine the team score.

The qualifying test questions will be multiple choice. All questions count equally unless there is a tie. There will be no penalty for guessing. The score will be the number of correct answers.

TIE BREAKER

Several questions throughout the test have been designated as tie breakers. In the event of a tie, the number of correctly answered tie breakers will be used to determine the highest scoring teams.

B. FINAL COMPETITION

Based on the results of the qualifying competition, the final competition will be held among the three highest scoring teams to determine first, second and third place. The time limit for this competition will be approximately thirty (30) minutes, and the competition will be open to the public. Once the competition has begun, people may leave the room but may not re-enter until the competition concludes.

The moderator will determine the exact beginning and ending time for the thirty (30) minute final competition. This period will fall within the forty-five (45) minutes assigned to the event.

In the final competition, teams will compete using buzzer systems. The moderator will read a question and will cease talking immediately when a team member pushes his/her buzzer. If the correct answer is not provided within five (5) seconds, the other two teams will have a chance to buzz in. The moderator will reread a question only when the original reading was interrupted by the buzzer. The student who pushes the buzzer must provide the answer. There will be no conferring allowed among team members. **A team may only buzz in once for each question.** If the moderator determines that no attempt is being made by any team to answer a question, he/she may discard that question and continue the competition.

Each correct answer is worth ten (10) points.

A five (5) point penalty will be assessed each time a buzzer is accidentally pushed during the competition or for giving a wrong answer to a question. Holding a buzzer down will automatically lock a team out.

In the event the moderator is uncertain of a participant's answer, he/she will ask for a decision from the judges. All decisions by the judges will be final.

A ten (10) point penalty will be assessed by the judges or the moderator for each act of unsportsmanlike conduct or interruptions by a team member or coach. If a team member is found to be cheating, the team member will automatically be disqualified. However, the remaining team members may compete.

In the event a competition ends in a tie, there will be a three minute overtime. In the event of equipment malfunction, the competition will be completed by reading questions alternately to each team. If a team does not answer or answers incorrectly, that question will be discarded, and the next team will be asked a new question. Points will be awarded for correct answers, but no penalty will be given for incorrect answers.

All winners for these competitions will be announced at the appropriate Awards Ceremony.

All spectators in these final competitions are asked to remain quiet and will be asked to leave if they disrupt the competition in any way. This includes gesturing to the participants.

ALL NOTES TAKEN BY PARTICIPANTS WILL BECOME THE PROPERTY OF TRIDENT TECHNICAL COLLEGE AND WILL NOT BE RETURNED. NO RECORDERS, CAMERAS OR ACTIVATED ELECTRONIC COMMUNICATION DEVICES ARE ALLOWED IN THE COMPETITION. TRIDENT TECHNICAL COLLEGE RESERVES THE RIGHT TO PHOTOGRAPH OR VIDEOTAPE FOR PROMOTIONAL PURPOSES.

F. VISUAL ARTS

SCHOOL COMPETITION (*Medallions awarded to winners; points awarded to schools*)

1. PARTICIPANTS

Each school will be allowed up to two individual participants per level. Due to the nature of this competition, no alternates will be entered on the official roster.

2. COMPETITION

A. Selected poem:

Lily-Bell and Thistledown Song

Awake! Awake! for the earliest gleam
Of golden sunlight shines
On the rippling waves, that brightly flow
Beneath the flowering vines.
Awake! Awake! for the low, sweet chant
Of the wild-birds' morning hymn
Comes floating by on the fragrant air,
Through the forest cool and dim;
Then spread each wing,
And work, and sing,
Through the long, bright sunny hours;
O'er the pleasant earth
We journey forth,
For a day among the flowers.

Awake! Awake! for the summer wind
Hath bidden the blossoms unclose,
Hath opened the violet's soft blue eye,
And awakened the sleeping rose.
And lightly they wave on their slender stems
Fragrant, and fresh, and fair,
Waiting for us, as we singing come
To gather our honey-dew there.
Then spread each wing,
And work, and sing,
Through the long, bright sunny hours;
O'er the pleasant earth
We journey forth,
For a day among the flowers.

--Louisa May Alcott

B. Description

The artist's task is to translate a concept into tangible images by telling a story and arousing the viewer's interest and curiosity. A variety of media and methods of expression may be used to communicate ideas and create desired effects. Different types of art may be found in magazines, newspapers, books, brochures, greeting cards and posters. Art may also be found on billboards, CD covers, product packaging and storyboards. Your task is to create an artwork that will accompany the selected poem.

3. PROCEDURES - DRAWING ACTIVITY

- A. Be sure to analyze the meaning of the poem. The style, imagery choice, etc. is open to your artistic interpretation. You may incorporate text into your artwork if desired.

B. Guidelines

1. All artwork must be matted or mounted with black, gray, white or cream board.
2. Format may be vertical or horizontal.
3. Size **(Entries that do not conform to the following artwork size and finished board size will not be accepted)**
 - a. Artwork Size: Not to exceed 11" x 14".
(Artwork may be smaller if desired or image area may be circular if desired.)
 - b. Required Finished Board Size: 14" x 17".
(This is to include the mounting or matting. The artwork **MUST** be mounted or matted to a finished size of 14" x 17".)
4. No glass, no shrink-wrap, no acetate overlay or frames will be allowed in competition.

C. MEDIUM

Please choose from the following::

- | | |
|-----------------|----------------------|
| 1. pencil | 7. acrylic |
| 2. color pencil | 8. photography |
| 3. pen & ink | 9. computer graphics |
| 4. pastel | 10. airbrush |
| 5. watercolor | 11. mixed media |
| 6. marker | |

NO OIL PAINT OR OIL STICK

Use fixative on artwork if necessary.

4. REQUIREMENTS

- A. Artwork and presentation techniques will be completed prior to the QUEST competition date. Artwork must be submitted to the Vice President for Academic Affairs' office (Building 100/Room 210) no later than 4:30 p.m. on Friday, February 16, 2018. Entries will be accepted between 8:00 a.m. to 4:30 p.m., Monday through Friday. The artwork will be on display in Building 920-College Center on the day of the competition.
- B. The Visual Arts Entry form must be adhered to the back, centered on the finished artwork. The entry form must include the student's name, address, phone number, school name, grade level, teacher's name and title of poem. The Visual Arts Entry Form is available on the QUEST website (<http://www.tridenttech.edu/academics/quest/index.htm>) to print.

5. SCORING - DRAWING ACTIVITY

- A. The judges will use the Visual Arts Criteria Checklist to score artwork.
- B. Criteria Checklist is based on the following five (5) categories:
 1. Competition Requirements - Artwork demonstrates that the student has carefully followed the competition instructions.
 2. Craftsmanship - Artwork demonstrates the student's proficiency with materials and tools according to the competition guidelines.
 3. Presentation - Artwork is clean, properly sized and aligned.

4. Creativity/Originality - Artwork demonstrates a unique, engaging idea or expression.
5. Visual Interpretation of the Text – Selected poem “**Lily-Bell and Thistledown Song.**”

C. A numerical rating from 1-5 will be awarded to each category. Once each category is numerically ranked, the judges’ scores will be added together for one final competition score.

5. *Outstanding*
4. *Superior*
3. *Good*
2. *Average*
1. *Poor*

6. OVERALL WINNERS

The overall winners will be determined by the highest numerical combination score from the criteria checklist. All winners for these competitions will be announced at the appropriate Awards Ceremony.

7. ENTRY PICK-UP

Participants may pick up their entry from the College Center in Building 920-College Center at the conclusion of the appropriate Awards Ceremony. Identification will be required to release artwork. Entries will be available for pick-up until 4:00 p.m. on SATURDAY, MARCH 3, 2018. Entries that are not picked up will be sent to the school along with the QUEST certificates before the end of the academic year.

VIII. SPECIAL COMPETITION GUIDELINES

A. Automotive

SPECIAL COMPETITION (*Medallions awarded to winners; no school points*)

1. PARTICIPANTS

Each school will be allowed two participants from grades 10-12.

2. WRITTEN COMPETITION

- A. All test questions will be multiple choice. There will be no penalty for guessing. The score will be the number of correct answers.
- B. Test questions will be taken from existing ASE Certification exams in the following areas:
 1. Brake Systems
 2. Engine Performance
 3. Engine Repair
 4. Manual Transmissions
 5. Automatic Transmissions
 6. Electrical Systems
 7. HVAC

8. Steering and Suspension

3. PRACTICAL COMPETITION

- A. Students will participate in four (4) hands-on exercises. A potential of 25 points per exercise can be earned.

4. SAFETY RULES/REGULATIONS

- A. Approved, shatter proof, clear eye protection is required at all times in the labs and shops.
- B. Approved work clothing, and shoes are required. No open toed shoes, sandals, flip flops. No tank tops, shorts, loose clothing, ties and jewelry. Long hair will be pulled away from face, and tucked under a ball cap, or other tight fitting head dress.

5. OVERALL WINNERS

The overall winners will be determined by combining the scores from the written competition and the scores from the practical competition.

TIE BREAKER

In the event of an overall tie, participants will be required to compete in a timed engine troubleshooting problem. The participant who properly analyzes and corrects the problem in the least amount of time will be named the overall winner.

All winners for these competitions will be announced at the appropriate Awards Ceremony.

ALL NOTES TAKEN BY PARTICIPANTS WILL BECOME THE PROPERTY OF TRIDENT TECHNICAL COLLEGE AND WILL NOT BE RETURNED. NO RECORDERS, CAMERAS OR ACTIVATED ELECTRONIC COMMUNICATION DEVICES ARE ALLOWED IN THE COMPETITION. TRIDENT TECHNICAL COLLEGE RESERVES THE RIGHT TO PHOTOGRAPH OR VIDEOTAPE FOR PROMOTIONAL PURPOSES.

B. COMPUTER AIDED DESIGN (CAD)

SPECIAL COMPETITION (*Medallions awarded to winners; no school points*)

1. PARTICIPANTS

Each high school will be allowed three individual participants from grades 9-12. Winners will receive medallions.

2. PROCEDURES - DRAWING ACTIVITY

- A. Competitors will be answering a series of multiple choice questions that will test their knowledge of Inventor and standard drafting practices. The competition will require the construction or editing of parts and assemblies utilizing the current version of Autodesk's Inventor software. No special software configurations will be allowed.

Competitors are expected to have a working knowledge of Inventor operations, which include: constraining/dimensioning sketches, creating/editing sketched features, creating/editing placed features, creating/editing drawing views, and creating/documenting assemblies.

One computer will be used by each individual and it will be loaded with a current version of Inventor. No special templates, menus or routines will be allowed during the competition. The use of books, reference materials, and calculators is also prohibited during the competition.

A typical competition will consist of the following steps:

- General Knowledge
 - The layout and dimensioning of multi-view drawings.
 - Use of Inventor tools and operations.
- iProperties – Mass, Area, Volume, and Center of Gravity questions
- (Note: To display the physical properties of a part or assembly – right-click the part or assembly name in the browser and select “iProperties” from the shortcut menu. When the dialog box appears, select the “Physical” tab, set the “Required Accuracy” to “Very High”, and select the “Update” button.)
 - Create parts and assemblies and prove their correctness by determining its physical properties.
 - Edit existing parts and assemblies and prove their correctness by determining its physical properties.
- Measure Tools – Distance, Angle, Loop, and Area questions
- (Note: The measure tools can be accessed from the Inspect or Tools tab of the Ribbon.)
 - Create parts and assemblies and prove their correctness by measuring features
 - Edit parts and assemblies and prove their correctness by measuring features

B. Any electronic files needed for the competition will be provided and opened from the hard drive. Although it will not be necessary, files may be saved to the hard drive if desired. Storing to any removable storage devices will not be allowed. No plotting operations will be performed.

3. SCORING -

Each drawing will be scored according to the following guidelines:

A participant may score a total of one-hundred (100) points for correctly answering all questions. The competition will consist of fifty (50) multiple choice questions worth two (2) points each. Although the difficulty or time needed to answer a question may vary greatly, each question is weighted the same. Final scores will determine winners with any tie scores being broken based on answers provided to key questions.

4. OVERALL WINNERS

All winners for this competition will be announced at the final Awards Ceremony.

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C. COMPUTER PROGRAMMING

SPECIAL COMPETITION (*Medallions awarded to winners; no school points*)

1. PARTICIPANTS

Each high school will be allowed a team of 1-3 participants from grades 9-12. Winners will receive medallions.

2. PROCEDURES - PROGRAMMING ACTIVITY

- A. A total of five (5) computer programming problems will be given to each team to code and execute using Java (preferred) or C++ (based on the school's registration).

Students programming in Java will be allowed to write, compile, and execute using either Eclipse IDE or the TextPad utility. Therefore, you are encouraged to be familiar with either of those applications prior to taking part in the competition.

We highly recommend that students using C++ familiarize themselves with the setup of a solution and project using the Visual Studio IDE. If you arrive at the competition and this is your first experience with Visual Studio IDE, you will find yourself struggling to cope with the initial setup of your programs, which will definitely put you behind your competition at the very start!

All of these applications can be downloaded from the Internet. Please be sure to get familiar with the appropriate development environment before competition day!

- B. When a team has completed work on any program, turn in the flash drive containing the program to the judges.

3. SCORING - PROGRAMMING ACTIVITY

Each program will be weighted depending on its complexity.

Each submitted program will be evaluated for structure and awarded a structure score between zero (0) and ten (10). Teams will be awarded a program value of forty (40) points for a correct solution minus five (5) points for each incorrect solution of that problem previously submitted. The program value will be multiplied by the weight listed on the program sheet and the structure score will be added to the product giving a program point total. A minimum score of zero will be added for structure; that is, no negative structure score will be computed. The winner will be the team with the highest number of program points accumulated at the end of the competition. In the case of a tie, the team with the highest accumulated structure score will win.

If an incorrect program is turned in it will be returned with the message, "INCORRECT". Five (5) points are deducted from the program score for each incorrect submission. A correct program will be returned with the message, "CORRECT."

Scoring Formula

$(\text{program value} - 5X) * \text{weight} + \text{structure score} = \text{program point total}$

where X represents the number of incorrect submissions of the program solution.

Example - For a correct assignment with a weight of 1.3 and a maximum of 10 structure points, the maximum attainable score would be $(40-0) * 1.3 + 10 = 62$.

Team members may work together or divide work among them.

Reference materials will be allowed to aid in the coding of any of the programs.

4. PROGRAMMING STANDARDS

Writing a good computer program is more than merely arriving at the correct answer. The code must be efficient and easily maintained. To encourage structured programming techniques, the following guidelines have been developed and will be used to judge the programs submitted during the QUEST competition:

- A. Each program must have a documentation section which will include the program number, team members' names, and a brief executive summary of how the program solves the problem.
- B. Each program must have only one exit point.
- C. Descriptive variable names must be used.
- D. Each variable must be initialized by your program before it is referenced.
- E. You will be told when you are expected to perform a particular task in a function. Each function is to have its own concise documentation.
- F. No GOTO statements - explicit or implied - are to be used. You may anticipate some programs for which you are directed to use a specific control structure, and others in which it is left to you to decide the best control for that particular problem.
- G. Unnecessary and misleading lines of code must be eliminated.
- H. Solutions are to be written in as general and robust a manner as possible, contributing to the program's overall correctness. As an example, if you are told to solve a problem which may, for some value, result in an attempt to divide by zero, your code should anticipate and handle that condition.
- I. Remember that it's always a good idea to test your program on a wide variety of data. For instance, when processing numerical data, try different signs and magnitudes, integers and other reals, as well as zero. Try to bomb your own program.

The above represents general guidelines to follow throughout the competition. Scoring of programs will be based upon items A-H. Each problem statement will specify the particulars to keep in mind as you work on that given program.

5. OVERALL WINNERS

All winners for this competition will be announced at the final Awards Ceremony.

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D. CULINARY ARTS

Please reference Registration Information, General Information and Guidelines and Check-In Procedures in the front of this Handbook.

Event Schedule

Time of Events	Culinary Competition Location and Description
7:00 to 7:30 a.m.	<u>Check in:</u> Coaches check in participants
7:00 to 8:00 a.m.	<u>Relish Restaurant Group Dining Room (Main Campus Dining Room):</u> Product Check-In for Culinary Teams
8:00 to 8:30 a.m.	<u>Mandatory Judges Meeting:</u> Teams are given stations and set-up for the competition.
8:30 to 11:30 a.m.	<u>Teams Bake:</u> Baking & Pastry Lab Room 202 & 206
11:30 a.m. to 12:00 p.m.	<u>Teams Finish Pizzas:</u> Window opens for Pizza delivery to Judges
12:00 p.m.	<u>Relish Restaurant Group Dining Room (Main Campus Dining Room):</u> Judges evaluate Pizzas <i>All Teams complete decorating & presenting of Cupcakes in Bakeshop</i>
12:00 to 12:30 p.m.	Judges evaluate Cupcakes and Decorating
12:30 to 1:30 p.m.	<u>Relish Restaurant Group Dining Room (Main Campus Dining Room):</u> Culinary Coaches and Teams eat lunch; Pizza and Cupcakes

Winners will be announced during the final Awards Ceremony in the College Center.

SPECIAL COMPETITION (*Medallions awarded to winners; no school points*)

Overview: Each participating school may have only one team consisting of 2-3 participants currently enrolled or previously enrolled in a culinary course from grades 9-12. Each team will compete in both the pizza and cupcake competition. Students will make their pizza dough and cupcakes in the early morning. Finishing the pizzas and decorating the cupcakes will be done in the late morning. All pizzas and cupcakes will be baked and decorated in the College's Bakeshops and will be done by 12:00 p.m. Teams are encouraged to practice the dish before the day of QUEST in order to become familiar with the products.

Culinary Competition #1 – Gourmet Pizza

Overview: Each team will prepare one traditional type of pizza three times and one creative type of pizza three times for a total of six pizzas. The pizzas will be judged on flavor, creativity, originality, best use of ingredients, and appearance.

1. RULES

- A. Each team must pick one of the following pizzas to make as a "Traditional Pizza" with traditional tomato (pizza) sauce, mozzarella, and one topping. The pizza will be a round, 14" pizza.
 1. Hand tossed
 2. Deep dish
 3. Thin crust
 4. Sicilian
- B. Each team must also make one creative type of pizza. This pizza can be cold or hot, any shape and utilize any type of dough, filling and topping(s). It is open to the team's

imagination (example: Mexican pizza, dessert pizza, seafood pizza, or other). It can be any shape: square, round, triangle, stacked or other

- C. Each team will have three (3) hours to create, bake and serve their pizzas. Revolving oven will be pre-set at 500 degrees Fahrenheit.
- D. Each team will provide three (3) copies of each recipe (traditional & creative). Recipes will be submitted to the judges at Product Check-In. (See "F" below.)
- E. **Each team is responsible for their pizza equipment, pans, and ingredients. The College will provide the yeast, bread flour, sugar, honey, salt, and black pepper in addition to the mixers, ovens, and cutting boards. All other small wares must be provided by the student team. If a team wishes to use bottled water or specialty flour to prepare dough, the team will need to supply it.**
- F. **Product Check-In:** All items supplied by the team will be checked in during check-in times: 7:00 a.m. to 8:00 a.m. in the College's Bakeshops in Building 920. Products will be checked for appropriate temperature kept outside of the food danger zone. Any product not tempted or stored correctly will be discarded. Substitute products will not be allowed.

No commercially prepared canned or jarred sauces, pizza crusts or dough are allowed. All vegetables cannot be pre-cut or cooked prior to the competition. Any homemade pizza sauce made prior to the competition must be labeled with all ingredients listed.

2. PROFESSIONALISM, SANITATION & UNIFORMS

- A. **Students must arrive as a team dressed in full culinary uniform.** This will include: hat (baseball hat is OK), chef jacket or QUEST t-shirt, long dark pants, apron, and black non-skid, closed-toe shoes. The College will provide side towels.
- B. No nail polish shall be worn during the competition. Long hair will be pulled away from face and tucked under cap.
- C. Students will work as a team of professionals without the aid of their instructors.
- D. Proper sanitation will be maintained throughout the competition. Cold food presented cold should be handled with gloves. Sanitizer will be used when cleaning the station. Hand washing should be done periodically.

3. JUDGING

- A. There will be three judges for the pizza competition. One of each pizza will be presented to the judges for tasting.
- B. All food must be cooked within the three (3) hour time period in one of the College's Baking Kitchens.
- C. Each judge will evaluate both types of pizzas based on originality, taste, design, creativity, proper cooking techniques, best use of ingredients and recipe accuracy. Organizational skills, safety & sanitation, and professionalism will also be considered.
- D. The pizza competition score will be added together with the cupcake score to determine the competition's overall winners for the gold, silver, and bronze medallions.

4. TASTINGS

- A. The remaining four (4) pizzas will be delivered to the Relish Restaurant Group Dining Room (Main Campus Dining Room). Each team will cut and plate their pizzas.
- B. Each team should bring their own table top signs to describe and name their pizzas.

Culinary Competition #2 – Cake Decorating

Overview: **Each team of students will prepare 12 cupcakes from scratch.** No mixes will be allowed. Once cooled, each cupcake will be decorated with either a frosting of choice or meringue topping. The finished products will be judged on flavor, creativity, originality, proper baking technique and appearance. Three (3) of the cakes will go to the judges and the other nine (9) will be presented at the team's table.

1. RULES:

- A. Each team must prepare from scratch 12 cupcakes. Cupcakes may be any size. Commercial mixes or prepared mixed ingredients **cannot** be brought to the competition. Pre-made frostings and/or commercial frostings are allowed. Each team will need to provide two (2) copies of its recipe to the judges at Product Check-In.
- B. Cupcakes must be prepared, baked and cooled in the College's bakeshop. Revolving oven will be pre-set at 360 degrees Fahrenheit.
- C. Each cupcake must be decorated utilizing a creative theme of the students' choice (example: sports, holidays, special events). Extra toppings or garnishes can be used as well. Students should be as creative as possible. Frostings can include butter cream, meringue, whipped topping or other toppings as desired.
- D. **Each team is responsible for bringing in its own cupcake pans, decorating tubes, pastry bags, spatulas, and ingredients. The College will provide the mixers, ovens, and cutting boards. All other small wares must be provided by the school's team.**
- E. **Product Check-In:** All items supplied by the teams will be checked in during check-in times: 7:00 a.m. to 8:00 a.m. in the College's Bakeshops. Products will be checked for appropriate temperature kept outside of the food danger zone. Any product not tempered or stored correctly will be discarded. Substitute products will not be allowed.

2. PROFESSIONALISM, SANITATION & UNIFORMS

- A. **Students must arrive as a team dressed in full culinary uniform.** This will include: hat (baseball hat is OK), chef jacket or QUEST t-shirt, long dark pants, apron, and black non-skid, closed-toe shoes. The College will provide side towels.
- B. No nail polish shall be worn during the competition. Long hair will be pulled away from face and tucked under cap.
- C. Students will work as a team of professionals without the aid of their instructors.
- D. Proper sanitation will be maintained throughout the competition. Cold food presented cold should be handled with gloves. Sanitizer will be used when cleaning the station. Hand washing

should be done periodically.

3. JUDGING

- A. There will be two (2) judges for the cake decorating competition. Each team must serve three (3) cupcakes to the judges, fully decorated. They must present their items by 12:00 p.m.
- B. All food must be cooked within the three (3) hour time period in one of the College's Baking Kitchens.
- C. Each judge will evaluate the cupcakes: decorating technique, taste, design, creativity, and originality. Organizational skills, safety & sanitation, and professionalism will also be considered.
- D. The cupcake decorating score will be added together with the pizza competition score to determine the competition's overall winners for the gold, silver, and bronze medallions.

4. TASTING

Nine (9) cupcakes will be delivered to the team's table in the Relish Restaurant Group Dining Room (Main Campus Dining Room) to showcase their final cakes. Cupcakes can be placed on a plate, platter or any type of serving vessel.

E. ENGINEERING DESIGN & CONSTRUCTION

SPECIAL COMPETITION (*Medallions awarded to winners; no school points*)

BALSA WOOD BRIDGE GUIDELINES

1. PARTICIPANTS

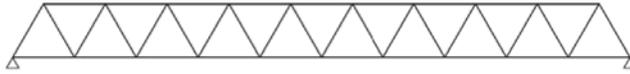
Each high school will be allowed up to two teams (2 bridges) of 1-3 participants for each bridge. Each participant must be from grades 9-12. Due to the nature of this competition, no alternates will be entered on the official roster. Winners will receive medallions.

2. COMPETITION

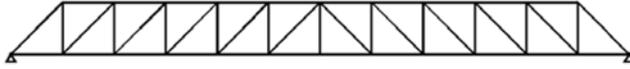
This competition is designed to allow a team of students to experiment with the design of a bridge structure made of balsa wood. The bridge must meet the following criteria:

- A. Maximum length 24 inches, minimum length 22 inches. The clear space between the supports will be 20 inches, and cannot be changed due to the testing device/set-up. Maximum height of the bridge must not exceed 7.5 inches, and the maximum width must not exceed 4 inches. The bridge must be constructed to conform to the description of a Howe Truss, a Pratt Truss or a Warren Truss as shown below. The top and bottom chords of the truss must be entirely horizontal. The bridge must allow a section of a 2 X 4 (actual 1 ½ x 3 ½ dimension) to pass through the bridge as a test vehicle. The 2 X 4 can be turned either way to qualify.

Below are the constraints:



*Warren truss – some of the diagonals are under compression and some under tension. Composed of equilateral triangles with no vertical members, all diagonals form an angle of 60 degrees with respect to the horizontal. The number of triangles, or panels, will vary with the actual length.



*Howe truss - the diagonals are under compression under mid-point loading. All diagonals form an angle of 45 degrees with respect to the horizontal. The number of panels will vary with the actual length.



*Pratt truss - the diagonals are under tension under mid-point loading. All diagonals form an angle of 45 degrees with respect to the horizontal. The number of panels will vary with the actual length.

***Reference -**

https://en.wikipedia.org/wiki/Truss_bridge

- B. The load will be applied by a 3-inch square plate that will bear on the top portion of the bridge structure at the center of the span. The load is applied physically by a testing device that will subject the bridge to deflection, and measure the structure's resistance to being deflected by use of an electronic load cell.
- C. The maximum weight of the bridge structure will be 50 grams. No bridge weighing more than 50 grams will be tested at the competition. Only 1/8" x 1/8" and 3/16" x 3/16" square balsa wood stock will be allowed as structural members. Bridges may be constructed using a mix of the two sizes, or using one size only. Two or more strips of balsa wood stock CANNOT be glued together in parallel to form a larger cross section. In addition to the materials mentioned above, the joints may be reinforced with 1/16 inch thick balsa sheet stock cut in squares no larger than 1/2" x 1/2" and glued to the joint. Any commercially available glue made for wood is acceptable.

3. PROCEDURES

- A. Only teams registered for the Engineering Design & Construction Competition will be allowed to submit a bridge for participation in this competition.
- B. **Bridges must be submitted at Building 800, Room 830 between 11:00 a.m. and 12:00 p.m. on SATURDAY, MARCH 3, 2018. Bridges will not be accepted after 12:00 p.m. on SATURDAY, MARCH 3.** All registered participants must be present at the time of submission.
- C. Bridges will be tested starting at 1:00 p.m. All registered participants must be present at the time their bridge is load tested. The initial weight of the bridge itself will be recorded prior to loading. The bridge will be loaded until failure and the maximum load carried by the bridge will be recorded. The bridges will be rated based on the ratio of load carried to the weight of the bridge.

4. OVERALL WINNERS

All winners for this competition will be announced at the final Awards Ceremony.

5. ENTRY PICK-UP

Participants may pick up their bridge from Building 800/Room 830 at the conclusion of the competition.

NO RECORDERS, CAMERAS OR ACTIVATED ELECTRONIC COMMUNICATION DEVICES ARE ALLOWED IN THE COMPETITION. TRIDENT TECHNICAL COLLEGE RESERVES THE RIGHT TO PHOTOGRAPH OR VIDEOTAPE FOR PROMOTIONAL PURPOSES.

F. FRENCH

French I, French II

SPECIAL COMPETITION (*Medallions awarded to winners; no school points*)

1. PARTICIPANTS

Each school will be allowed two individual participants in each competition.

- A. In French I, students from grades 8-12 who are currently enrolled in or whose last course completed was French I may compete.
- B. In French II, students from grades 9-12 who are currently enrolled in or whose last course completed was French II may compete.

2. PROCEDURES

- A. The actual time for the competition at each level will be one hour. Additional time is allowed for dissemination of tests, pencils and paper which will be provided by Trident Technical College.
- B. Proctors will determine the exact beginning and ending times for the one hour testing period. This period will fall within the hour and fifteen minutes assigned to the event.
- C. The competition will test each participant's ability to:
 - Match a written question with its logical written reply.
 - Complete a sentence by choosing the grammatically correct response from a list of multiple choices.
 - Answer multiple choice questions based on a reading passage.
 - Write a brief paragraph on a designated subject.

3. CONTENT

The French competitions will follow the grammar specifications for the National French Contest 2017.

4. OVERALL WINNERS

All winners for these competitions will be announced at the awards ceremony at 3:30 p.m.

ALL NOTES TAKEN BY PARTICIPANTS WILL BECOME THE PROPERTY OF TRIDENT TECHNICAL COLLEGE AND WILL NOT BE RETURNED. NO RECORDERS, CAMERAS OR ACTIVATED ELECTRONIC COMMUNICATION DEVICES ARE ALLOWED IN THE COMPETITION. TRIDENT TECHNICAL COLLEGE RESERVES THE RIGHT TO PHOTOGRAPH OR VIDEOTAPE FOR PROMOTIONAL PURPOSES.

F. HORTICULTURE

SPECIAL COMPETITION (*Medallions awarded to winners; no school points*)

1. PARTICIPANTS

Each school will be allowed three participants from grades 9-12.

2. WRITTEN COMPETITION

A. All test questions will be multiple choice. There will be no penalty for guessing. The score will be the number of correct answers.

B. Test questions will be from the following topics:

Test questions will be equally divided among the following:

1. Botany
2. Insect and Disease
3. Pesticide and Fertilizer
4. Propagation and Greenhouse

3. GREENHOUSE PRACTICAL COMPETITION

A. Student will identify the following:

1. Trees and shrubs
2. Insects and diseases
3. Turfs
4. Annuals and perennials

A word bank of answers will be provided that will include both botanical and common names.

4. OVERALL WINNERS

The overall winners will be determined by combining the scores from the written competition and the scores from the greenhouse competition.

TIE BREAKER

Specific questions throughout the test have been designated as tie breakers. In the event of a tie, the number of correctly answered tie breakers will be used to determine the highest scoring teams.

All winners for these competitions will be announced at the appropriate Awards Ceremony.

ALL NOTES TAKEN BY PARTICIPANTS WILL BECOME THE PROPERTY OF TRIDENT TECHNICAL COLLEGE AND WILL NOT BE RETURNED. NO RECORDERS, CAMERAS OR ACTIVATED ELECTRONIC COMMUNICATION DEVICES ARE ALLOWED IN THE COMPETITION. TRIDENT TECHNICAL COLLEGE RESERVES THE RIGHT TO PHOTOGRAPH OR VIDEOTAPE FOR PROMOTIONAL PURPOSES.

H. SPANISH

Spanish I, Spanish II

SPECIAL COMPETITION (*Medallions awarded to winners; no school points*)

1. PARTICIPANTS

Each school will be allowed two individual participants in each competition.

- A. In Spanish I, students from grades 8-12 who are currently enrolled in or whose last course completed was Spanish I may compete.
- B. In Spanish II, students from grades 9-12 who are currently enrolled in or whose last course completed was Spanish II may compete.

2. PROCEDURES

- A. The actual time for the competition at each level will be one hour. Additional time is allowed for dissemination of tests, pencils, and paper which will be provided by Trident Technical College.
- B. Proctors will determine the exact beginning and ending times for the one hour testing period. This period will fall within the hour and fifteen minutes assigned to the event.
- C. The competition will test each participant's ability to:

SPANISH I

- Match a written question with its logical written reply.
- Complete a paragraph by choosing the correct response from a list of multiple choice verb conjugations.
- Answer multiple choice questions based on a reading passage
- Write a brief paragraph on a designated subject.

SPANISH II

- Match a written question with its logical written reply.
- Complete a sentence by choosing the grammatically correct response from a list of multiple choices.
- Answer multiple choice questions based on a reading passage.
- Write a brief paragraph on a designated subject.

3. CONTENT

The Spanish competition will follow the specifications for the National Spanish Examinations for 2016.

SPANISH I

- A. NOUNS - gender and number, diminutive ending *-ito*, use of *de* + noun for possession
- B. ADJECTIVES - gender and number, position, possessive (short forms),
Ordinal numbers 1st – 10th, cardinal numbers 1-100
- C. ARTICLES - definite and indefinite, with days of the week, with title, contractions “*al*” and “*del*”
- D. PRONOUNS - subject, direct object, indirect object (used with *gustar*)
- E. PREPOSITIONS - simple prepositions (*de, en, a, con, para, sin, según, entre*), personal *a*
- F. VERBS – subject-verb agreement, present tense, negation, *ser* vs. *estar*, idiomatic uses of *tener* (with *calor, hambre, años*), helping verbs: *tener que, poder, querer, hacer* used in weather expressions, present progressive, expressing the future with *ir + a + infinitive*
- G. ADVERBS - adverbs of affirmation (*si, cómo no, por supuesto*), adverbs of negation (*no, nada*), adverbs of time (*tarde, siempre, ahora, hoy*), adverbs of place (*aquí, allí*)
- H. CONJUNCTIONS - simple conjunctions (*y, o*)
- I. INTERJECTIONS - simple interjections (*¡Ay!, ¡Oye!*)
- J. OTHER - question words, word order of questions

SPANISH II

Everything for Spanish I, plus:

- A. NOUNS - gender and number of nouns ending in *-dad, -ción, -ma, -pa*
- B. ADJECTIVES - comparative and superlative (including *mejor, peor, mayor, menor*), the suffix *-ísimo*, ordinal numbers above 10th, cardinal numbers above 100, demonstrative, possessive (long forms), adjectives of quantity
- C. ARTICLES - use of definite articles with parts of the body, omission of articles, use of *ningún, algún*, and their forms
- D. PRONOUNS - indirect object, interrogative, demonstrative, reflexive, prepositional
- E. VERBS - preterite, imperfect, present perfect, commands, future, helping verbs: *acabar de, necesitar, deber, aprender a, tratar de, hacer* to express duration of time, *conocer* vs. *saber*
- F. ADVERBS - the suffix *-mente*, negative words
- G. PREPOSITIONS - simple prepositions (*sin, contra, desde, durante, entre, menos*), compound prepositions (*antes de, cerca de, debajo de, etc...*)
- H. CONJUNCTIONS - use of *e* instead of *y*, use of *u* instead of *o*, *pero* vs. *sino*

4. OVERALL WINNERS

All winners for these competitions will be announced at the final Awards Ceremony.

ALL NOTES TAKEN BY PARTICIPANTS WILL BECOME THE PROPERTY OF TRIDENT TECHNICAL COLLEGE AND WILL NOT BE RETURNED. NO RECORDERS, CAMERAS OR ACTIVATED ELECTRONIC COMMUNICATION DEVICES ARE ALLOWED IN THE COMPETITION. TRIDENT TECHNICAL COLLEGE RESERVES THE RIGHT TO PHOTOGRAPH OR VIDEOTAPE FOR PROMOTIONAL PURPOSES.

I. VIDEO/FILM

SPECIAL COMPETITION (*Medallions awarded to winners; no school points*)

1. PARTICIPANTS

Each high school will be allowed up to two teams (2 videos) of 1-4 participants. Each participant must be from grades 9-12. Due to the nature of this competition, no alternates will be entered on the official rosters. Winners will receive medallions in the 3:30 p.m. Awards Ceremony on the day of competition.

2. COMPETITION

A. Assignment:

Short form video or film project illustrating the topic of “**Generation Gap**,” the project may be a newscast, sportscast, feature story, animation or documentary completed as part of a class or extra-curricular activity.

B. Guidelines:

Project must be no more than 5 (five) minutes total running time.

Format: USB Flash Drive; must be playable in Quicktime Player on a computer.

3. REQUIREMENTS

B. All team members must be registered on the official Quest web-site to be eligible. Completed entries must be submitted to the Vice President of Academic Affairs' Office (Building 100/Room 210) no later than 4:30PM on Friday, February 16, 2018. Entries will be accepted between 8:00 a.m. and 4:30 p.m. Monday through Friday. The entries will be on display in Building 920-College Center on the day of the competition.

C. The *Video/Film Special Competition Entry Form* must be filled out completely and submitted with the USB Flash Drive. The entry form must include the student director's name, director's grade level, teacher's name, title of entry and the names of the three additional registered participants, if applicable. The *Video/Film Special Competition Entry Form* is available to print from <http://www.tridenttech.edu/academics/quest/index.htm>, the QUEST website.

4. SCORING:

A. The judges will use the film criteria checklist to score the video.

B. The Criteria Checklist is based on the following five (5) categories:

1. Image Quality:

- Framing is appropriate to the content/intent of the story.
- Camera movement is skillful and effective for the content/intent of the story.
- Lighting is appropriate to the content/intent of the story.

2. Sound Quality:

- Sound quality is “clean”.
- Sound levels are consistent.
- Sound levels are appropriate for the content/intent of the story.

3. Editing Quality:

- Edits are logical and appropriately paced

- Edits are “clean”.
- Editing style is appropriate for the content/intent of the story
- 4. Effectiveness of Storytelling
 - Images, sound and editing are conceived in an innovative way to imaginatively tell the story.
 - The story is engaging and fun to watch
- 5. Originality of Concept
 - The overall approach to the project is fresh and inventive.

C. A numerical rating from 1 – 5 will be awarded to each category. Once each category is numerically ranked, the judges’ scores will be added together for one final combination score

- 5. *Outstanding*
- 4. *Superior*
- 3. *Good*
- 2. *Average*
- 1. *Poor*

5. OVERALL WINNERS

The overall winners will be determined by the highest numerical combination score from the criteria checklist. All winners for this competition will be announced at the final Awards Ceremony.

6. ENTRY PICK-UP

Participants may pick up their entry from the College Center in Building 920-College Center at the conclusion of the Final Awards Ceremony. Identification will be required to release the video. Entries will be available for pick-up until 4:00 p.m. on Saturday, March 3, 2018. Entries that are not picked up will be sent to the school along with the QUEST certificates before the end of the academic year.

Entry forms are available online at <http://www.tridenttech.edu/academics/quest/index.htm>.

J. WELDING

SPECIAL COMPETITION (*Medallions awarded to winners; no school points*)

1. PARTICIPANTS

Each high school will be allowed three individual participants from grades 10-12. Winners will receive medallions.

2. WRITTEN COMPETITION

- A. All test questions will be multiple choice. There will be no penalty for guessing. The score will be the number of correct answers.
- B. Test questions will test knowledge in the following areas:
 - 1. Safety
 - 2. Metallurgy
 - 3. Weld Testing (Inspection)
 - 4. Welding Symbols

5. Welding Processes and Applications
6. Cutting Processes and Applications

3. PRACTICAL COMPETITION

- A. Competitors will be required to weld using the Shielded Metal Arc Welding process and demonstrate skills by:
 1. Producing welds using E-6010 and/or E-7018 electrodes.
 2. Producing groove and/or fillet welds in any position on any joint design in accordance with a welding procedure.
- B. Points will be awarded for integrity and appearance of root pass, filler passes, cover passes, and observance of weld shop safety procedures.
- C. Coaches and spectators will not be permitted in the welding lab during the competition.

4. EQUIPMENT REQUIREMENTS

- A. All participants must provide their own safety equipment and welding gear to include: Safety glasses with side shields (*Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.*), leathers, welding shield with #10 or #11 filter lens, leather welding gloves, welder's cap, chipping hammer, and wire brush.
- B. Participants must further be attired in a long sleeve cotton shirt, long cotton trousers or denim jeans, and high top leather boots. No tennis shoes or shorts will be permitted.
Any disregard for safety rules and regulations will result in disqualification.

5. OVERALL WINNERS

The overall winners will be determined by combining the scores from the written competition and the scores from the practical competition.

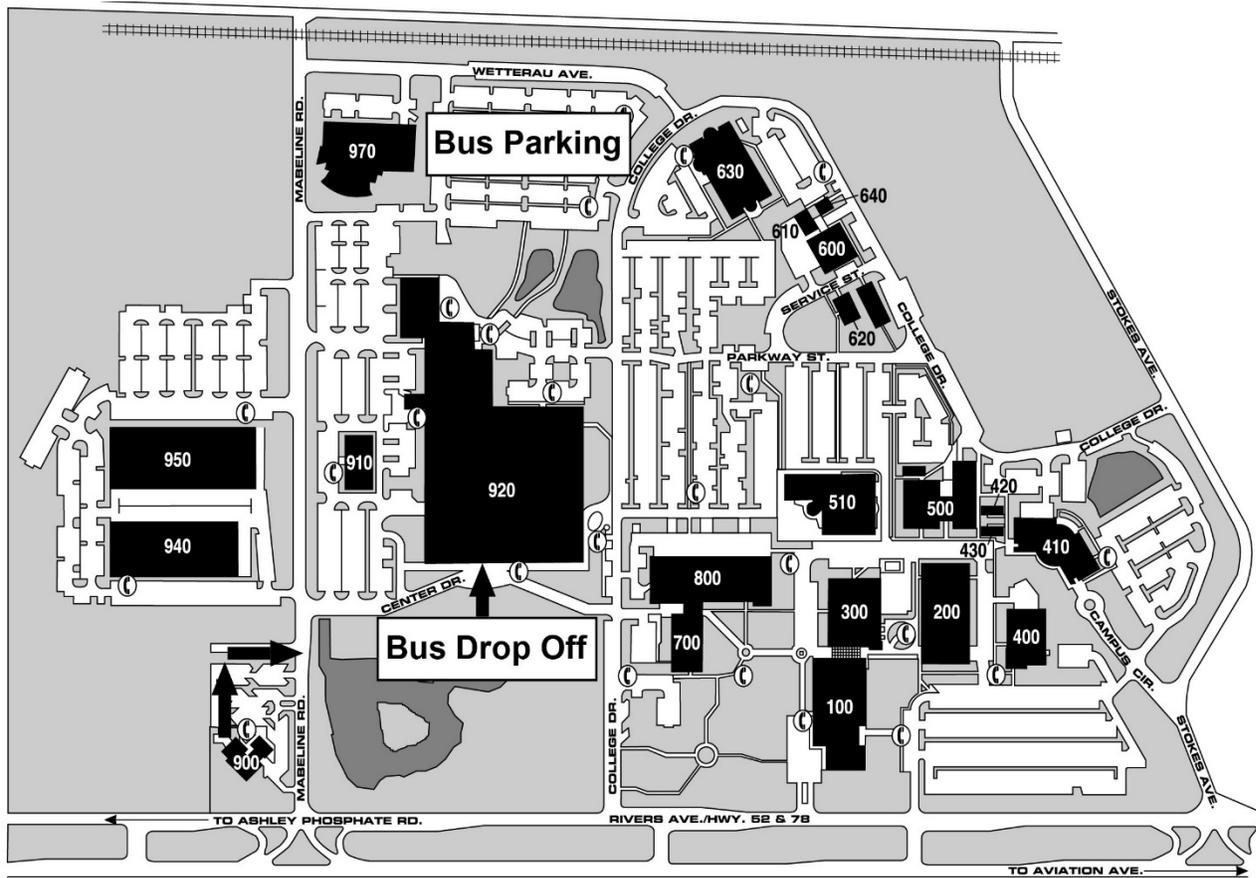
TIE BREAKER

In the event of an overall tie, competitors will be required to compete in an oxyacetylene cutting competition, in accordance with a cutting procedure.

All winners for this competition will be announced at the final Awards Ceremony.

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IX. Main Campus Map

Building 300	Science QUALIFYING and FINAL
Building 400	Welding
Building 620	Horticulture
Building 700	Computer Aided Design (CAD) Program Displays
Building 800	Automotive Engineering Design & Construction Math QUALIFYING
Building 920	Social Studies QUALIFYING Awards Ceremonies Check-In Center Composition Computer Programming Concession Stands Culinary Arts First Aid Center French I & II Lost & Found Math FINAL Photo Shoot Location Program Displays QUEST Nest (student/coach meeting room) Social Studies FINAL Spanish I & II Video/Film Visual Arts
Building 950	Bookstore
Building 970	Public Speaking

For further information, please contact

Michelle Tice at 843.574.6887 (michelle.tice@tridenttech.edu)

QUEST Academic Competition



TRIDENT TECHNICAL COLLEGE

It is the policy of Trident Technical College that no discrimination on the grounds of race, color, disability, religion, gender, sexual orientation, age, or national origin will exist in any area of the College. The College will make all decisions regarding recruitment, hiring, training, promotions, and all other terms and conditions of employment without discrimination on the above grounds or on other factors, which cannot lawfully be the basis for an employment decision.

Trident Technical College reaffirms its policy of administering all its educational programs and related supportive services and benefits in a manner which does not discriminate because of a current student's, or prospective student's race, color, disability, religion, gender, sexual orientation, age, or national origin, or other characteristics which cannot lawfully be the basis for provision or denial of services.

QUEST Academic Competition



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