

For Office Use Only

MAP M ___ R ___ LA ___ S ___

ITBS Comp ___ M ___ R ___ Sci ___

Grades: M ___ ELA ___ Sci ___

Discipline report: _____

MIDDLE SCHOOL



Exploring the World of Science

Fulton Science Academy
2019-2020 Science Olympiad Team
Application and Event Interest Form

Student Name: _____ Grade: 6 7 8 (circle)

Homeroom Teacher: _____ Math Level this year _____

Student E-Mail Address: _____

Tell Us About Yourself -- (To be completed by the Student!)

1. Why do you want to join the Science Olympiad team?

2. What assets or special talents do you have that will benefit the team?

3. Which category best describes you? (Circle the number 1-5 that best fits how you feel about each category
1= Dislike very much 5= Do this very well)
 - a. I like to work alone on projects 1 2 3 4 5
 - b. I like to work in groups on projects 1 2 3 4 5
 - c. I like to do research on my own. 1 2 3 4 5
 - d. I am able to study topics without being told to. 1 2 3 4 5
 - e. I can start things/projects without having to be directed or guided through them. 1 2 3 4 5
 - f. I can use resources to find information that I do not know. 1 2 3 4 5
 - g. I like to build things. 1 2 3 4 5

5. Please rank the **five** Science Olympiad events that interest you most. Short event descriptions are listed on the last page

_____ Anatomy	_____ Reach for the Stars	_____ Circuit Lab	_____ Boomilever	_____ Experimental Design
_____ Heredity	_____ Dynamic Planet	_____ Machines	_____ Game on	_____ Ping Pong Parachute
_____ Disease Detectives	_____ Fossils	_____ Mission Possible	_____ Mousetrap Vehicle	_____ Write It, Do It
_____ Ornithology	_____ Road Scholar	_____ Meteorology	_____ Elastic Launch	_____ Density Lab
_____ Water Quality	_____ Food Science	_____ Crime Busters	_____ Glider	

Time Commitment, Availability, and Scheduling

(To be completed by the student and Parent!)

What other **school** and **non-school** activities do you participate in (e.g., sports, music, scouts, etc.)

Are you available for classes, team meetings, field trips, and tournaments on Saturdays? _____

Several event coaches hold their classes after school from 4:00 to 5:00 PM. List any weekdays when you would not be available at these times: _____

Parent Information:

(To be completed by the Student and Parent)

May we publish your e-mail address and phone numbers on a team roster? _____

Successful Science Olympiad teams have a lot of parent support. There are numerous opportunities for parents to help their child's team and parents are strongly encouraged to help out in as many ways as possible. **Please indicate the ways in which you can support our team:**

_____ Coach an event

_____ Drive students to a field trip or tournament

_____ Fund Raising (organize a hat day, pizza lunch, ice cream day, etc.)

_____ Design and order team shirts

_____ Snack organizers for practices and competitions

_____ Arrange guest speakers and/or field trips

_____ Other: _____

Dues

Dues for Science Olympiad are \$150 per student. This includes your team shirt. Dues for students selected for the Science Olympiad Team will be billed through Smart Tuition. **Travel and tournament expenses are not covered by these dues.**

Additional Considerations:

Some things parents and students should consider when deciding whether to participate in Science Olympiad:

1. Science Olympiad requires a lot of dedication. Team members are required to study a minimum of 4 academic events. Students are expected to work on their events outside of Science Olympiad classes.
2. According to Science Olympiad rules, each team can have a maximum of fifteen students. In some tournaments we may enter more than one team. Only one team can compete in the State Tournament.
3. Sixth graders will compete in invitational and regional tournaments. Few, if any, sixth graders will make the State Tournament Team; however, the experience gained by participating in Science Olympiad during 6th grade tends to make them valued members of the team in 7th, 8th and 9th grades.
4. Every effort is made to match students with events that interest them. Tournament scheduling constraints and conflicts sometimes prevent students from competing in a favorite event. In all cases, competition schedules are designed to maximize team performance.

Competition Dates:

Check the dates below and mark your calendars. **PLEASE MAKE SURE YOU ARE AVAILABLE ON THESE COMPETITION DATES.**

October 12, 2019	South Forsyth Invitational – up to 3 teams
November 16, 2019	Dodgen Invitational – 1 or 2 teams
December 7, 2019	Chattahoochee MS Invitational – up to 3 teams
January 25, 2020	Taylor Road Invitational or other out of state tournament – up to 3 teams
February TBA, 2020	Regional Tournament – 3 teams
March TBA, 2020	MS State Tournament – Kennesaw Mountain High School, 1 team
May 15-16, 2019	National Tournament – NC State University, Raleigh, NC

Terms and Conditions:

1. Science Olympiad Team decisions are made by the SO Committee that consists of Science teachers, school administrators, and other FSA personnel. Event coaches will provide feedback on individual student performance but there will be no parents involved in final decision-making process.
2. Students' Science, Math and standardized test scores and disciplinary records will be reviewed during the team selection process.
3. Team success is the priority over individual success.
4. Previous experience in Science Olympiad does not guarantee placement on the team. The number of qualified applicants, coaches, room restrictions, and official Science Olympiad rules will determine the size of the team.
5. Although some students are permitted to participate in other activities and Academic Teams, priority must be given to Science Olympiad if accepted. After school activities including clubs, sports competitions, Scouts and such cannot replace Science Olympiad weekday or weekend activities.
6. All school rules are in effect for all Science Olympiad activities whether on or off campus. Students must respect our equipment and clean up after themselves. Disrespect of teammates, coaches, and/or property will not be tolerated. Be considerate of event coaches – they are volunteering their time. Students can be removed from the team for poor behavior!
7. 7th grade students participating in Duke TIP should consider the above competition dates when scheduling their ACT or SAT tests.

I have read, understand, and agree to the above conditions.

Student Signature: _____

Date: _____

Parent Signature: _____

Date: _____

Questions?

Contact head coaches Mrs. Stathos (gstathos@fultonscienceacademy.org), or Mrs. Walsh (pwalsh@fultonscienceacademy.org)

Return completed forms to Mrs. Stathos in the Media Center or Mrs. Walsh in the Front Office no later than Wednesday, August 7 at 4:00 PM

Science Olympiad 2019-2020 Event Descriptions

Life, Personal, & Social Science

Anatomy & Physiology – Understand the anatomy of the human body systems: skeletal, muscular, and integumentary systems.

Disease Detectives – This event requires students to apply principles of epidemiology. Students will use investigative skills in the scientific study of disease, injury, health and disability in populations or groups of people.

Ornithology – This event will test student knowledge of birds.

Heredity -- Participants will solve problems and analyze data or diagrams using their knowledge of the basic principles of genetics.

Water Quality – Participants will be assessed on their understanding and evaluation of marine and estuary environments.

Earth and Space Science

Dynamic Planet – Students will use process skills to complete tasks related to oceanography.

Fossils – Teams demonstrate their knowledge of ancient life by completing selected tasks at a series of stations including but not limited to fossil identification, answering questions about classification, habitat, ecologic relationships, behaviors, environmental adaptations and the use of fossils to date and correlate rock units.

Meteorology – This event emphasizes understanding of basic meteorological principles with emphasis on analysis and interpretation of meteorological data, graphs, charts and images relating to severe storms.

Reach for the Stars – Students will demonstrate an understanding and basic knowledge of the properties and evolution of stars and galaxies.

Road Scholar – Participants will answer interpretive questions that may use one or more state highway maps, USGS topographic maps, Internet-generated maps, a road atlas or satellite/aerial images.

Physical Science & Chemistry

Machines – Teams will complete a written test on simple and compound machine concepts and construct a lever-based measuring device to determine the ratio between two masses.

Circuit Lab – Participants must complete tasks and answer questions about electricity and magnetism.

Density Lab – Participants compete in activities and answer questions about mass, density, number density, area density, concentration, pressure and buoyancy.

Crime Busters – Given a scenario, a collection of evidence, and possible suspects, students will perform a series of tests that along with other evidence will be used to solve a crime.

Food Science – Students will answer questions on food chemistry with a focus on fermentation and pickling. Students will also build and demonstrate a salinometer/hydrometer capable of measuring salt content of a liquid.

Technology and Engineering

Boomilever– Teams will design and build a Boomilever meeting requirements specified in the rules supporting a minimum load and to achieve the highest structural efficiency.

Elastic Launched Glider – Prior to the tournament teams design, construct, and test elastic launched gliders to achieve the maximum time aloft.

Mission Possible – Prior to the competition, teams will design, build, test, and document a Rube Goldberg-like device that completes required start and final actions through a series of specific actions.

Mousetrap Vehicle – Teams will construct a vehicle that uses a mousetrap as its sole means of propulsion, quickly travels a specified distance, and stops as close as possible to the Target Point.

Inquiry & Nature of Science

Experimental Design – This event will determine a participant's ability to design, conduct and report the findings of an experiment conducted entirely on site.

Game On – This event will determine a team's ability to design and build an original computer game using the program Scratch incorporating the scientific theme provided to them by the supervisor.

Ping Pong Parachute – Prior to the competition, students will use a 1 liter carbonated beverage bottle to launch a ping pong ball attached to a parachute. The longest flight time wins.

Write It Do It – One student will write a description of an object and how to build it, and then the other student will attempt to construct the object from this description.