

Woodstock High School STEM Clubs & Competitions 2019-2020



Participation in student organizations and clubs enables students to engage in activities, competitions, and various STEM programs. They are designed to promote teaming in students, enhance personal development, foster leadership and problem-solving skills and obtain an understanding of STEM career opportunities.

Each year, STEM students must participate in

- at least one STEM club, honor society or other approved STEM events
- at least one STEM competition

Students can satisfy the club requirement in one of two ways:

- be a member in good standing of a STEM club or honor society at the end of the school year. The sponsor(s) of each club/honor society must sign off on your participation in May of each year.
- participate in 10 hours of STEM events throughout the year, with a minimum of 3 earned each semester. Opportunities include STEMposium speakers, Sprouting STEMs or other approved STEM events. Students are responsible for documenting these events on the provided form throughout the year.

Approved STEM Clubs & Honor Societies

Each of these will fulfill the club requirement, provided you meet all requirements established by the club sponsor.

Mu Alpha Theta (Math Honor Society)

Sponsors: Mrs. Whitaker, Mrs. Koeninger

- Students gather once a month to challenge each other mathematically while having fun in a relaxed, welcoming environment. Students lead the club and choose different activities that allow us to celebrate math in a way unique to a typical mathematics classroom.
- Eligible upon completion of Honors Algebra 1; must be in Honors math class with 85 Math GPA.

Science National Honor Society

Sponsors: Mrs. Moeller, Ms. Hipp

- Encourage participation in and recognition of scientific and intellectual thought, to advance the students' knowledge of classical and modern science, to communicate with the scientific community, to aid the civic community with its comprehension of science, and to encourage students to participate in community service and, in turn, encourage a dedication to the pursuit of scientific knowledge that benefits all mankind.
- Eligible in 10th grade with a 90 overall weighted GPA 90 and 95 unweighted science GPA

Technology Student Association Honor Society

Sponsor: Mrs. Zayance

- Prepare students to be successful inventors, designers, creative problem solvers, responsible citizens and leaders in a technological society.

Environmental Club

Sponsor: Mrs. Potz

- The environmental club's mission is to increase awareness of the impact that our human actions have on our environment. Our goal is to improve our local ecosystem through clean-up projects and serve as models that encourage responsible environmental habits.

Women in Science and Engineering (WiSE)

Sponsor: Ms. Grantham

- Promote and encourage females to pursue science and engineering as post-high school options.

Sprouting STEMs

Coordinator: Mrs. Sinclair

- A monthly after-school program dedicated to providing elementary students access to STEM fields while educating them about the infinite possibilities STEM career can offer.
- High school students work with elementary students at Woodstock, Carmel and Sixes to deliver prepared lessons in January, February, March and April.

Tests/Competitions

Each of these events will meet the competition requirement.

American Math Competition (AMC)

Sponsor: Mrs. Sinclair

- Given in February each year to math students at schools all over the nation. The test consists of 25 interesting mathematical questions designed to challenge students and promote problem solving through friendly competition.
- Open to all students

Biology Olympiad

Sponsor: Mrs. Moeller

- The premiere biology competition for high school students in the United States, the USA Biology Olympiad provides the motivation, curricular resources, and skills training to take students beyond their classroom experience to the level of international competitiveness.
- Geared for student who are in (or have taken) AP Biology.
- Given in early February

Lockheed Martin CodeQuest

Sponsor: Mr. Epperson

- For students in AP Computer Science – see Mr. Epperson for more information.

AP Computer Science Bowl

Sponsor: Mr. Epperson

- For students in AP Computer Science – see Mr. Epperson for more information.

Science Fair

Sponsor: Ms. Grantham

- For students enrolled in Scientific Research 2-4.

Ongoing Clubs & Multi-Day Competitions

Each of these teams/events will satisfy BOTH the club and competition requirement, provided you meet the requirements established by the club sponsor(s).

Academic Bowl

Sponsor: Ms. Cruttenden

- Students collectively work to increase academic and trivia knowledge through participation in enrichment activities.

Math Team

Sponsor: Mr. Oglesby, Mr. Blackwell

- Learn additional problem-solving skills you might not get in the classroom. Practice is held on Monday afternoon. Most competitions are on Saturdays.
- Compete at UGA, GT, Lassiter, Rockdale, Reinhardt, etc. You do not have to be a math Jedi to be on the team. We will teach you the ways of the force!

Science Bowl

Sponsor: Mr. DeVoss

- Meetings are held once a week to review science topics and play mock competitions against each other for practice.
- Students should be knowledgeable in at least two of these science areas: Astronomy, Biology, Chemistry, Physics, Earth Science, General Science and Mathematics.

Technology Student Association (TSA)

Sponsor: Mrs. Zayance

- Attend conferences and participate in competitions designed to prepare students to be successful innovators, enhance personal development, promote leadership skills and ready students for STEM careers.
- Open to all students.

TEAMS (Tests of Engineering Aptitude, Mathematics, and Science)

Sponsor: Mrs. Zayance

- Students work together in 4-8 person teams in a three-part competition involving multiple choice questions, an essay and a design/build challenge. Challenges are designed to develop critical job readiness skills such as teamwork, analytical thinking and multi-dimensional problem solving.

VEX Robotics

Sponsor: Mrs. Zayance

- The objective is to increase motivation and the desire to succeed while getting excited about creating something with technology.

Other clubs, competitions and events may qualify for STEM – see a STEM teacher for approval.