

Saline Middle School Science Olympiad 2018-2019

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Exploring the World of Science

**Science Olympiad
Student/Parent
Informational
Meeting**

Science Olympiad's Main Goals:

1. Learn about science and engineering through active, hands-on, group participation.
2. Learn about topics using teamwork and cooperation to further a student's understanding of scientific subjects, skills, and processes.

Rules for teams

1. Each team can have a maximum of 15 students.
2. Schools may have more than 1 team.
3. The 15 students on a team will compete in 23 events covering different topics and skills.
4. Only 1 team from each school is eligible to advance past the Regional Competition.
5. Schools can compete in multiple invitational competitions, prior to Regionals.

Teams

1. Gold Team - All 23 events must be covered.
 - a. All students will be assigned to practice multiple events (2-4). We need these students to focus on assigned events, but will have opportunities to explore other topics if desired.
2. Blue Team - All 23 events will try to be covered.
 - a. Some students will only be in 1 event if this is what they choose.
3. Both teams will practice and learn events together.

Practices

1. Every Thursday, from 3-4:30, in Mr. Fiske's Chemistry room.
2. Most events will require extra individual practices.
 - a. Parent involvement in coaching events is encouraged and necessary.
 - b. Available most Saturday afternoons at the Saline Library.
 - c. Materials and equipment will be provided.
 - d. Practice logs will be posted on website for students to fill out.
3. Recommend minimum 20 minutes a day researching and reviewing.

Practices

3. Space available at Saline High School (C103) during their practices Sunday afternoons, and Tues/Thurs from 5-7:30pm, as long as it is arranged ahead of time, and has parent/coach supervision.
4. Some practices may have to occur at a student's house to have access to tools to properly build and assemble event materials.

Goal is to have a safe, fun environment to have students learn about and practice their topics.

Practices

Typical Thursday practice:

- 3-3:15 Students get materials together, Coaches will discuss the practice goals for the day.
- 3:15-3:45 Students will gather into groups for event study
- 3:45-4:15 Students will change into second groups for event study
- 4:15-4:30 Students will discuss or present events or topics from that day

Parent coaches are welcome to come in and work with students during this time

Practices

Practice logs for each event will be posted on the website.

Students will be responsible for recording which event that they participated in each Thursday, and any other practice they had with their teammates or a coach.

Daily studying is the student's responsibility, and will not need to be recorded.

Coaches

Parents and other adults that would like to help out and coach, are welcome and encouraged. You do not need to be an expert in a topic in order to coach. We will provide materials and can provide suggestions how to teach topics.

Teams will do better the more involvement we have from the parents and community.

Team opportunities

We are working to set up visits and coaching mentors with Eastern Michigan University.

Some event participants will be able to visit the labs or see specimens that correspond to their topics.

EMU will possibly have workshops on specific topics that will be beneficial to our students.

Competitions

First invitational competition is tentatively December 8, in Sylvania, Ohio.

Invitationals in January and early February will be entered as dates become available by the hosting schools.

Regional competition is February 23, at Hillsdale College

Gold team will have all 23 events covered.

Blue team will work to have all events covered.

Teams

Students will be studying by assigned events, determined by their stated interests, scheduling conflicts, and possibly the need to cover all events.

Evaluations will be ongoing throughout practices and from event coaches.

Thursday November 29 is a half day for students. Practice will be an extended time period in which example exams and test runs of build events will be given.

Teams

Invitationals give students an opportunity to compete against teams that they wouldn't normally go against in Regionals.

This gives us as coaches an opportunity to see who works best together, and may change for each tournament.

Both teams are given equal opportunities to medal in events that students participate in.

Teams

Participants are asked to sign the student contract so that we may best provide a fun and safe environment to practice and learn in. We hope that this provides realistic expectations for the students.

Events

23 events that are a wide range of science and engineering topics.

Events are broken down into 5 different categories:

1. Life, Personal, and Social Science
2. Earth and Space Science
3. Physical Science and Chemistry
4. Technology and Engineering
5. Inquiry and Nature of Science

Events

LIFE, PERSONAL & SOCIAL SCIENCE

[Anatomy and Physiology](#)

[Disease Detectives](#)

[Heredity](#)

[Herpetology](#)

[Water Quality](#)

Events

EARTH AND SPACE SCIENCE

[Dynamic Planet](#)

[Fossils](#)

[Meteorology](#)

[Road Scholar](#)

[Solar System](#)

Events

PHYSICAL SCIENCE & CHEMISTRY

[Circuit Lab](#)

[Crime Busters](#)

[Density Lab](#)

[Potions and Poisons](#)

[Thermodynamics](#)

Events

TECHNOLOGY & ENGINEERING

[Battery Buggy](#)

[Boomilever](#)

[Elastic Launched Glider](#)

[Roller Coaster](#)

Events

INQUIRY & NATURE OF SCIENCE

[Experimental Design](#)

[Game On](#)

[Mystery Architecture](#)

[Write It Do It](#)

Events

Please visit the website

<https://SalineMiddleSciOly.weebly.com> to fill in a form for each student so that we can determine their interests.

We will try to place students in their interest events, dependant upon scheduling conflicts and the need to have students participating in all events.

Please send form in no later than **September 28**, so that we can have everything in place to have a successful start to practices on **October 4th**.

Team sign up

Please visit the website

<https://SalineMiddleSciOly.weebly.com> to fill in a form for each student so that we can determine their interests.

We will be setting up a group chat for the students and parents. This will only be used to draw attention to important events or schedule changes.

Team fees: \$50 per student. This will be used to purchase team t-shirts as well as helping to fund event study and build materials.

Thank you to our sponsors:



LIEBHERR

Thank You!

Questions?

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