



CALLING ALL 4th, 5th and 6th GRADE STUDENTS INTERESTED IN SCIENCE!!

Once again, Salk Elementary is very excited to be participating in this year's Macomb County Science Olympiad, which will take place on Saturday, May 18, 2019 at Macomb Community College's South Campus from 8:00am-4:00pm! This meet will consist of a team of 16 Salk Science Olympiad members. The South Macomb 'Practice' Meet will held be on Saturday, March 23rd at Fraser High School from 8:00am-2:30pm and ALL of Salk's Science Olympiad members will be competing in this tournament.

Our first step is to assemble our winning team and parent volunteer coaches. Although we are opening up our Science Olympiad team to any and all students who can commit to attending weekly practices, please understand that **ONLY 16 STUDENTS** are able to compete at the County Meet. Those 16 students will be selected based on the following:

1. Availability of student's parent to coach an event.
2. Teacher recommendation.

Please refer to the attached sheet, which details all 16 of the events. Each student will be placed in two different events and we will need at least 1 parent volunteer coach for each of the 16 events. **NO EXPERIENCE IS REQUIRED TO BE AN EVENT COACH!** Please check out the following website which details the different events and expectations:

<http://macombso.org> ~ Refer to Elementary tab

Students will practice once a week with their coaches from January through the week of the County Meet, which is Saturday, May 18th.

If you believe that this is something you would enjoy participating in, please complete the last page and return the form to Ms. Provost by Wednesday, October 24th.

Salk's Science Olympiad

_____ My child is interested in becoming a member of Salk's 2018-19 Science Olympiad Team **AND I am willing and able to coach an event or volunteer in some other capacity.** I understand there will be an Open

House in a few weeks explaining each event in detail.

Child's Name

Teacher

Parent's Name

Phone Number

Email Address

Top 3 Events:

1. _____
2. _____
3. _____

Least Interested Event:

1. _____

****This form must be returned by Wednesday, October 24th. Please contact Ms. Provost at kelli.provost@fraserk12.org or 439-6821 with any questions you may have.**

16 Science Olympiad Events

A is for Anatomy

Students will identify anatomical structures of the human nervous and the digestive system.

Amazing Arthropods

Students will be required to demonstrate an understanding of the major arthropod groups including some taxonomy ecology, life history, and the economic impacts from them. *Expect the scope of species to be a bit different than in the past.*

Charged Up

Students will be tested on their knowledge of electricity and related concepts. The exam will cover circuits, conductors, diodes, voltage, current, resistance, schematic drawings, meter reading, electrical sources and safety.

Crash Car Eggspert

Each team will build a structure on top of a PineCar Racer. The structure will be designed to hold and protect one or two eggs as the car is rolled down a progressively steeper series of ramps and crashed into an immovable barrier.

Crime Busters

To determine who committed a crime, students will analyze clues that may include testing of unknown powders, paper chromatography to identify ink, matching fingerprints, shoeprints or tire tracks.

Grasp-A-Graph

Students will interpret and organize information using pictographs, pie, bar, double bar, line and double line graphs, and Venn diagrams.

Mystery Architecture

Students will be given a mystery set of materials to build a freestanding tower as tall as possible and still support the weight of a tennis ball.

Precision Ping Pong Propulsion

Students will design and construct a device, capable of launching a ping pong ball at a three-dimensional target, which is placed within a given range. *Your practice log is an important part of your work.*

Reflection Relay

A team of three students will work cooperatively to determine the path a light beam follows, as it reflects off a series of plane mirrors.

Rock Hound

Students will prepare charts and use them to identify various rocks and minerals. Questions about the rocks or minerals, such as their color, specific gravity, relative hardness, reaction to 3 molar hydrochloric acid, shape, and texture will be asked. ****Emphasis this season is on Sedimentary rocks and fossils.****

Simple Machines

Participants will identify, use, and answer questions about simple machines and recognize the relationships between work, force and distance as they apply to each simple machine. Knowledge of the following six simple machines will be demonstrated: lever, inclined plane, pulley, screw, wheel and axle, and wedge.

Starry, Starry Night

This event will test students' knowledge of astronomical facts and concepts relating to the earth, moon, solar system, celestial sphere, stars and constellations. ****This season includes a focus on the non-planetary members of our solar system, and space missions.****

Water Rockets

Prior to the tournament, contestants will use **GREEN** 2-liter soda/pop bottles to build one or more rockets propelled by pressurized air and water. Rockets will be launched at the tournament and time aloft recorded. The rocket that stays aloft for the longest time will win.

Weather or Not

Students will be tested on their knowledge of weather and meteorology. Topics may include clouds, simple scientific weather instruments and their functions, weather patterns, severe weather, and weather photographs, drawings, or diagrams. Questions may also include states of water, water cycle, weather terminology, atmosphere, and seasonal changes in weather.

****This season includes a focus on clouds, precipitation and atmospheric processes.****

Wildlife Safari

Students will demonstrate their ability to identify **reptiles and amphibians** of the Americas with the use of field guides.

Zowie Estimation

Presented with a variety of tasks, students will be asked to estimate mass in grams, volume in cubic centimeters, and number of objects in a container.