

Bach 2012 Science Olympiad Team



It's time to REGISTER for our 2nd Bach Science Olympiad Team!

What is the Bach Science Olympiad Team? Students register to participate in weekly practices for pre-determined events. These events are designed to foster an interest in and enthusiasm for science. During weekly event practices (from January to April 2012), coaches help the children apply a variety of science facts, concepts, processes, and applications to solve problems (and have fun!). Team members learn about science through hands-on, active, group participation.

What is the Washtenaw Elementary Science Olympiad (WESO) Tournament? On Saturday, April 21st at Pioneer High, thousands of children from 25 local elementary schools will come together to compete in the event challenges. Last year the tournament was fantastic and 55 of our children were able to compete.

Who participates in the WESO Tournament? Only a few children from each grade compete in each event, respectively, at the WESO tournament. However, some of our Bach event practice teams are very popular. Some Bach event teams hold a mini-tournament to determine who participates in the WESO tournament. We adopt an inclusive science club approach so more children may join the Bach Science Olympiad team and benefit from participating in event practices.

Registration for 2012: This year we have 15 events to offer children in grades 2 through 5. Please see the following event listing to see offerings by grade. **It is free to join a team** with a nominal suggested donation to the PTO to help defer costs for t-shirts, supplies, registration fees, and organizational items.

Bach 2012 Science Olympiad event registration may be completed in one of two ways:

1. **On-line registration:** There is a new PTO website dedicated to registration (thank you to Wendy Umbriac and Ken Varnum). The Bach WESO website will begin to accept event registrations, t-shirt orders, and donations on **Thursday, January 12th, 2012.**

<http://www.bachpto.org/weso.php>

2. **Paper registration:** Complete the attached registration form and return it to school.

Registration closes on Friday, January 20, 2012



Bach 2012 Science Olympiad Event Descriptions

Bach team events are listed below and indicate participating grades. Practice day, time, and location are indicated where possible. Some practice details are still to be determined (TBD) or locations will be provided by coaches. Teams that meet on the weekend will NOT meet at Bach but elsewhere in Ann Arbor.

Barge Building (2nd grade; Monday 3:45-4:45pm at Bach): Participants will construct a barge using the given material that can support a cargo of the largest number of weighted objects (e.g. pennies) without getting them wet.

Circuit Wizardry (4th and 5th grades; Sunday 4-5pm): Circuit Wizardry tests participants knowledge of basic electrical circuit concepts, components, schematic reading and understanding, and ability to design and build a simple circuit from a functional description.

Feathered Friends (2 thru 5 grades; Monday 3:45-4:45pm at Bach): A team of 2 students will be tested on bird identification by sight and sound (most common vocalizations). Coaches and students will have a preparatory bird list that will show which birds that are in our area that you will need to know. Students will be able to use a field guide to help with the identification and the guide can be written in or drawn in. There will also be questions about bird anatomy (structure and function, both for birds in general and for specific birds on the list), life history of birds in general and unique life history aspects of species on the bird list and habitat characteristics of birds on the list. Use of videos, recordings and photographs are likely as well as parts of birds.

Map Reading (2 thru 5 grades; Tuesday 3:45-4:45pm at Bach): Students will test their map reading skills to answer geographical questions. They will answer questions using various kinds of maps.

Mystery Architecture (2 thru 5 grades; Monday 3:45-4:45pm at Bach): Each team will be given a bag of materials (such as paper, tape, styrofoam, and paper clips) to build a structure that can support a tennis ball. The tallest structure wins.

No Bones About It (2 thru 5 grades; Sunday 4:30-5:30pm): Students will identify bones and pictures of bones at stations throughout the room. They will also be required to answer questions found on cards at the stations pertaining to bones.

Pentathlon (2 thru 5 grades; Friday 3:45-4:45pm at Bach): Five physical skills are combined with science questions (about nutrition) in an obstacle course relay race, where each student passes an object to the next student.

Puff Mobiles (2nd and 3rd grades; Friday 6-7pm at Bach): Each team will build a puff mobile out of beads (for wheels), a straw, straight pins, and a piece of paper. Teams will “puff” their mobile six times. The mobile that is puffed the farthest wins.

Science Jeopardy (4th and 5th grades; Wednesday 4-5pm): Science Jeopardy is played just like Jeopardy on TV with different science categories.

Bach 2012 Science Olympiad Event Descriptions

Sink or Float (2nd grade; Friday 2nd grade lunchtime at Bach): Each team of two will predict what might happen to various objects as they are placed into a bowl of water.

Straw Tower (3rd, 4th and 5th grades; Tuesdays 3:45-4:45pm at Bach): Each team of two will attempt to build the strongest tower out of 50 drinking straws and 20 straight pins.

To Infinity and Beyond (2 thru 5 grades; Saturday 10-11am): Using a planetarium, charts and a written test, students will: 1) demonstrate their knowledge of apparent motion of the sky (sunrise, sunset, moonrise, moonset, moon phases) and how it changes with the seasons, 2) identify bright constellations and stars in the night sky, 3) demonstrate their knowledge of our current understanding of our solar system, 4) distinguish between planets, dwarf planets, exoplanets, moons, asteroids, and comets.

Water Rockets (3rd, 4th and 5th grades; Saturday 10-11am): Students will build a rocket in advance out of a 2-liter soda bottle, making alterations and adding a parachute to help it stay aloft. The rocket that stays in the air the longest will be the winner.

What Went By (2nd and 3rd grades; Friday 3:45-4:45pm at Bach): A team of two students will be tested on organisms (animals/birds) which have become extinct or are on the endangered list and the reasons behind these organisms' extinction or endangered status.

Write It, Build It (3rd, 4th and 5th grades; Saturday mornings): Two team members will be shown a "picture" and will write a description of it. In a separate room, the other team members will be given the pieces of the "picture" and the written description and attempt to rebuild it. The team with the most pieces placed correctly wins. This event tests competitor's ability to clearly communicate in writing and follow written directions.

General information about WESO and the WESO Tournament may be found at the WESO website:

<http://www.aaps.k12.mi.us/wesowizards.home/home>

Detailed event descriptions may be found at the WESO website:

http://www.aaps.k12.mi.us/wesowizards.home/detailed_event_descriptions_2012

Bach WESO website:

<http://www.bachpto.org/weso.php>

BACH 2012 SCIENCE OLYMPIAD REGISTRATION

By Friday, January 20th, please return this form to school or register on-line:
<http://www.bachpto.org/weso.php>

Student Name (please print): _____

Grade: _____ Teacher: _____

Telephone: _____

Parent E-mail: _____

Student Registration for Bach 2012 Science Olympiad Events

Check events of interest	Event	Day	Time
	Barge Building (2 nd grade)	Monday	3:45pm-4:45 pm
	Circuit Wizardry (4 th and 5 th grades)	Sunday	4pm-5pm
	Feathered Friends (2 nd thru 5 th grades)	Monday	3:45pm-4:45 pm
	Map Reading (2 nd thru 5 th grades)	Tuesday	3:45pm-4:45 pm
	Mystery Architecture (2 nd -5 th grades)	Monday	3:45pm-4:45 pm
	No Bones About It (2 nd -5 th grades)	Sunday	4:30pm-5:30 pm
	Pentathlon (2 nd -5 th grades)	Friday	3:45pm-4:45 pm
	Puff Mobiles (2 nd and 3 rd grades)	Friday	6pm - 7pm
	Science Jeopardy (4 th and 5 th grades)	Wednesday	4pm-5pm
	Sink or Float (2 nd grade)	Friday	2nd grade lunch
	Straw Tower (3 rd , 4 th and 5 th grades)	Tuesday	3:45pm-4:45 pm
	To Infinity and Beyond (2 nd -5 th grades)	Saturday	10am-11am
	Water Rockets (3 rd , 4 th and 5 th grades)	Saturday	10am-11am
	What Went By (2 nd and 3 rd grades)	Friday	3:45pm-4:45 pm
	Write It, Build It (3 rd , 4 th and 5 th grades)	Saturday	mornings

Registration Donation and T-Shirt Order Form

We request all students participating in Bach Science Olympiad purchase a t-shirt. Students may use the same shirt from last year. To help with program expenses, please consider a donation payable to Bach PTO in the amount of:

\$5.00 (if you are NOT ordering a t-shirt)

\$10.00 (if you are ordering a t-shirt) and please circle the size below:

Youth Small	Youth Med	Youth Large			
Adult Small	Adult Med	Adult Large	Adult XL	Adult XXL	Adult XXXL

Questions? Send an email to weso@bachpto.org