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Wichita State University

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Science Olympiad Philosophy

- To improve the quality of science education, increase student interest in science, and provide recognition for outstanding achievement in science education by both students and teachers.
- Have some fun doing science and in the process learn some science.



History of Science Olympiad

- Started in 1985 after successful state tournaments in Delaware and southeastern Michigan.
- Seventeen states participated in that tournament; now there are over 13,500 schools from all 50 states participate.

History of Science Olympiad

- The first state of Kansas tournament was held in April, 1988 at WSU.
- Currently we have 5 regional tournaments that serve as qualifying tournaments for state. About 65 middle and 70 high schools participate at regional tournaments.
- The top two teams in each region plus a percentage are invited to state for a total of 30 teams in each division.

Science Olympiad Events Bridge Building



Science Olympiad Events Chemistry Lab



Science Olympiad Events Rocks and Minerals



Science Olympiad Events Road Scholar



Science Olympiad Events Write It Do It



2011 Chemistry and Physics Events

- Can't Judge a Powder (B)
- Crime Busters (B)
- Optics (B & C)
- Shock Value (B)
- Storm the Castle (B)
- Chemistry Lab (C)
- Forensics (C)
- Protein modeling (C)
- Sounds of Music (C)
- Wind Power (C)

2011 Earth / Space Science Events

- Dynamic Planet (B & C)
- Fossils (B & C)
- Meteorology (B)
- Road Scholar (B)
- Solar System (B)
- Astronomy (C)
- Remote Sensing (C)

2011 Life, Personal, and Social Science Events

- Anatomy (B)
- Disease Detectives (B & C)
- Ecology (B & C)
- Microbe Mission (B & C)
- Ornithology (B & C)
- Anatomy and Physiology (C)

2011 Technology Events

- Battery Buggy (B)
- Bottle Rocket (B)
- Junkyard Challenge (B)
- Towers (B & C)
- Helicopters (C)
- Mission Possible (C)
- Mousetrap Vehicle (C)

2011 Inquiry & Nature of Science Events

- Awesome Aquifers (B)
- Compute This (B)
- Experimental Design (B & C)
- Write It, Do It (B & C)
- Sumo Bots (C)
- Technical Problem Solving (C)

Getting Started Kansas Science Olympiad Website



Getting Started

To compete in the Kansas Science Olympiad, you must complete the following

KSO Registration

Complete your on-line Kansas Registration Form



KSO Registration



KSO Registration - continued

2009 Kansas Science Olympiad School Information

School Name:
 Address:
 City: Zip:
 School phone: School fax:
 Division: Regional Preference: Select Region:

Please keep in mind that userIDs and Passwords must be between 6 and 12 characters in length.
 UserID:
 Password: Confirm Password:

KSO Registration - continued

2009 Kansas Science Olympiad Coach Information

Please provide the following information about the team's Head and Assistant Coaches.
 Note: Each Designated with a * are required.

Head Coach
 First Name: Last Name:
 Primary Email: Confirm Primary Email:
 Secondary Email: Confirm Secondary Email:

Assistant Coach
 First Name: Last Name:
 Primary Email: Confirm Primary Email:
 Secondary Email: Confirm Secondary Email:

KSO Registration - continued

2009 Kansas Science Olympiad Registration Confirmation

Thank you for registering with the Kansas Science Olympiad. You should receive an email confirmation of your registration shortly. If you don't receive the confirmation email, please contact Greg Novacek at greg.novacek@wichita.edu.

At this point you want to click on the Registration Invoice link to the left

KSO Registration - continued

2010 STATE REGISTRATION INVOICE INVOICE # 104 DATE: 10/4/2009 DIVISION: B

Wichita State University
 Campus Box 32
 1987 Fairmount
 Wichita, KS 67260-0032
 Phone: 316-978-3191
 Fax: 316-978-3192
<http://kso.kansasstate.edu>

QTY	DESCRIPTION	UNIT PRICE	LINE TOTAL
1	2010 Science Olympiad Registration Fee	\$100.00	\$100.00
		SUB TOTAL:	\$100.00
		TOTAL DUE:	\$100.00

Please make all checks payable to "Wichita State University" and include a copy of this invoice with your payment.

KSO Registration - continued

Date: Tue, 14 Oct 2008 18:33:40 -0500
 From: greg.novacek@wichita.edu
 Subject: Kansas Science Olympiad Registration Information
 To: greg.novacek@wichita.edu
 X-Mailer: Microsoft CDO for Windows 2000
 Thread-index: AcluVUoGFaroxDzTSr6pHLOJDtXoA==

Your Registration information:
 School Name: Test High School
 School Address: 1945 Fairmount
 School City: Wichita
 School State: KS
 School Zip: 67260
 School Phone: 316-978-3191
 School Fax:
 Regional Preference: Wichita
 User ID: gnovacek

COACH INFORMATION:
 HeadCoach Name: Greg Novacek
 Primary email: greg.novacek@wichita.edu

KSO Registration - continued

- Make sure you include a copy of your invoice with your check. That is the only way of knowing which school's payment we have received.
- Make sure campus box 32 is included in the address. This insures that we receive the payment and not some other department on campus.
- Reminder screen will disappear once your payment has been recorded.

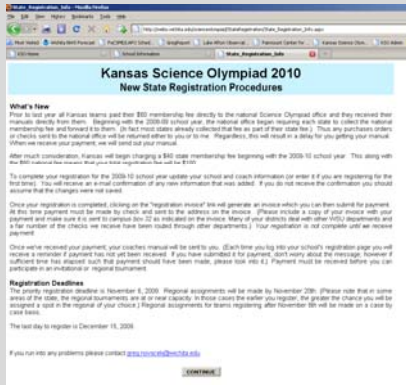
KSO Registration Logging back in



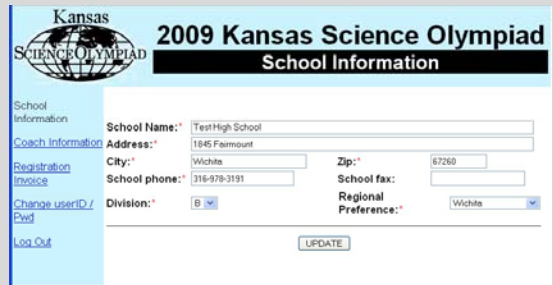
KSO Registration - Updating



KSO Registration - Updating



KSO Registration - updating



KSO Registration - continued

Completing your Kansas registration automatically registers you for a regional tournament. Registration should be completed by November 5th, with regional assignments made by November 19th.

(Please note that in some areas of the state, the regional tournaments have been near capacity. In those cases the earlier you register, the greater the chance you will be assigned a spot in the regional of your choice.)

Regional assignments for teams registering after November 5th will be made on a case by case basis.

Last day to register is December 15, 2010

Organizing a Team

A Science Olympiad Team consists of no more than 15 competing members.

- Team members must all attend the same school except that a middle school team may ask a maximum of 5 ninth graders that were on the team the previous year to return.
- Middle School / Junior High teams may not have more than five 9th graders
- High School teams may not have more than seven 12th graders.
- There is no minimum number of students on a team.

Organizing a Team

- If more than 15 students want to be on the team, many schools hold a mini-olympiad to determine team members.
- Various subgroups of these 15 team members then compete in individual events. Most events allow two students although some allow three.
- Although the event may allow for two students to participate, it is permissible to send only one.
- You do not need to compete in all events.



Preparing a Team

- You can't do it all yourself.
- Enlist the help of other teachers and parents.
- Have one person concentrate on the events in a particular subject area: chemistry, biology, technology, etc.
- Ideally one person per event.



General Event Rules

General Event Rules

- Teams may not interpret the rules so that they have an unfair advantage over the rules or another team.
- Unless otherwise stated, it is generally understood that if notes, resources, calculators, actions etc., are not excluded, then they are permitted unless they violate the spirit of the problem.



General Event Rules

- Once teams have entered the event area to compete, they may not
 - leave until they are finished
 - nor return once they have left
 - nor communicate with outside resources, including people, places, etc. by any means
- This effectively excludes the use of any computer, PDA, calculators, wireless devices, phones, etc. that have access to external communication or data retrieval during an event unless specifically permitted.



General Event Rules

- Safety is of the utmost importance. Event supervisors are obligated to prevent unsafe acts and devices.
- Safety decisions are not subject to appeal as long as they are applied equally to all teams.
- Contestants may not bring or use
 - flammable liquids or flame sources of any type, such as matches, cigarette lighters, alcohol and acetone
 - nor bring or use acids/bases of any concentration except for lemon juice, vinegar and other mildly acidic/alkaline naturally occurring substances.



General Event Rules

- One or more of the 15 current team members must have constructed all pre-built devices presented for judging. Any of the current team members may impound/demonstrate/operate the device at the competition unless stated otherwise in the rules.
- Any person designated by the coach can impound devices unless stated otherwise in the rules.

Eye Protection

- Contestants are responsible for providing their own protective eyewear.
- Teams **MUST NOT** be allowed to compete without adequate eye protection. This is **NON-NEGOTIABLE**.
- **#2, #4 & #5** are required for various events in both division B & C.

Eye Protection

#1 - Safety Spectacles (ANSI Z87)



Eye Protection

#1 - Safety Spectacles (ANSI Z87)

- Commonly referred to as safety glasses.
- Provide particle protection only
- May not be used in lieu of any other type of protective eyewear.

Eye Protection

#2 - Safety Spectacles with Side Shields (ANSI Z87)



Eye Protection

#2 - Safety Spectacles with Side Shields (ANSI Z87)

- Similar to Safety Spectacles
- Provide particle protection only.
- Specified when there is a probability of particles entering the eye from the side.
- Safety Spectacles with Side Shields may be used in lieu of Safety Spectacles without side shields.

Eye Protection

*#3 - Particle Protection Goggles
(ANSI Z87)*



Eye Protection

*#3 - Particle Protection Goggles
(ANSI Z87)*

- Must seal tightly to the face completely around the eyes and have **direct vents** around the sides.
- **Direct vents** consist of several small holes or a screen that can be seen through in a straight line.
- May not be used when handling hazardous liquids.
- May be worn in lieu of any of the types mentioned previously (1-2).

Eye Protection

*#4 - Chemical or Splash Protection Goggles
(ANSI Z87)*



Eye Protection

*#4 - Chemical or Splash Protection Goggles
(ANSI Z87)*

- Must seal tightly to the face completely around the eyes and have **indirect** vents.
- **Indirect** vents are constructed so that liquids do not have a direct path into the eye.
- If you are able to see through the vent holes, they are direct vents and may not be used when Chemical/Splash Protection is required.
- May be worn in lieu of any of the types mentioned previously (1-3).

Eye Protection

*#5 - High Impact Protection
(ANSI Z87+)*



Eye Protection

*#5 - High Impact Protection
(ANSI Z87+)*

- Eyewear that meet the "High Impact" specifications of ANSI Z87.1-2003 are identified by the mark "Z87+".
- High Impact protection is required when there may be a high inertia particle hazard (high mass or velocity).
- This will be specified in the rules by preceding the type of protective eyewear above (1-4) with the words "High Impact".

Eye Protection Suggestion

- Suggest that coaches just go out and spend \$40.00 for a dozen High Impact Chemical / Splash Goggles (Z87+).
- Enough for the whole team.
- Should prevent students showing up for an event with inadequate eye protection for that event.



Science Olympiad Web Pages

Kansas Home Page:

webs.wichita.edu/scienceolympiad/

Official National Home Page:

www.soinc.org/

Subscribing to the Kansas Science Olympiad Listserv:

To subscribe to the Kansas Science Olympiad List just send an e-mail message to the following address:

listserv@listserv.wichita.edu

Any statements in the subject line are not processed. The command must be the first text in the body of the note, any white space is ignored. The message should read as follows:

subscribe ksscioy-l "your first name" "your last name"

(no quotes; note that the character after the dash is a lower case "L" not a "1".)

In a short while you will get a message telling you your status with this listserv. If you want to send a note or pose a question to the group send an e-mail message to:

ksscioy-l@listserv.wichita.edu

Subscribing to the National Science Olympiad Listserv

This mailing has been established to allow coaches to communicate with each other about topics relating to coaching science olympiad teams.

To subscribe to the list you should send e-mail to:

science-olympiad-coaches-owner@yahoogroups.com

science-olympiad-coaches-subscribe@yahoogroups.com

with no subject and no message.

For more information:

<http://groups.yahoo.com/group/science-olympiad-coaches>

Additional Information on the Kansas Science Olympiad Website

Calendar on the Kansas Science Olympiad Website

Date	Event
August 16	Registration for the 2009-10 school year opens. To register go to the SOI Registration List in the menu on the left.
October 8	Registration Deadline for the 2010 Coaches' Touring Half at Wichita State.
October 11	Coaches' Touring Half.
November 9	Priority State Registration Deadline.
November 20	Regular Assignments made.
December 18	Final State Registration Deadline.
January 11	State Regional Tournament.
January 19	Coaches' Information.
February 17	Coaches' Information.
March 11	Those schools invited to the state tournament are invited.
March 12	State Tournament at Wichita State.
April 17	National Tournament at the University of Akron.
May 17-22	National Tournament at the University of Akron.

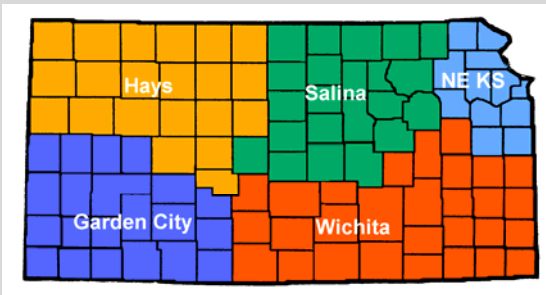
2010-11 Kansas Science Olympiad State Officials

State Director:
 Greg Novacek
 Fairmount Center for Science and Mathematics Ed.
 Campus Box 32
 Wichita State University
 Wichita, KS 67260-0032
 Phone (316) 978-3854
 Fax (316) 978-3350
 e-mail: greg.novacek@wichita.edu

2010-11 Kansas Science Olympiad State Officials

State Assistant Director:
 Robert Henry
 Fairmount Center for Science and Mathematics Ed.
 Campus Box 32
 Wichita State University
 Wichita, KS 67260-0032
 Phone (316) 978-3991
 Fax (316) 978-3350
 e-mail: robert.henry@wichita.edu

2011 Kansas Science Olympiad Regional Information



State Invitations

- Two top finishers in each regional
- Additional invitations based on number of teams that compete in regional.

State Invitations -- 2010

Regional	Division B	Division C
Garden City	2 / 4	2 / 4
Hays	4 / 8	6 / 13
Northeast KS	9 / 19	9 / 20
Salina	7 / 16	6 / 14
Wichita	8 / 17	6 / 14
Total	30 / 64 (47%)	30 / 65 (46%)

State Invitations for Regional Winners

- Issue invitations to 1st place regional finishers if their team does not qualify for the state tournament
 - Win medal if one of the top three places in what would be their school's division
 - Does not affect other medals awarded
 - Does not affect team point totals
 - Adds a handful of students to the tournament

Division Schedule

2008 Kansas Science Olympiad Schedule – Division B									
Event	Room	Impound	9:00 - 9:50	10:00 - 10:50	11:00 - 11:50	12:00 - 12:50	1:00 - 1:50	2:00 - 2:50	3:00 - 3:50
Amphibians and Reptiles	304 Hubbard								
Anatomy	339 Hubbard								
Balloon Launch Older	99005 Gym								
Bio Process Lab	430 Matheson								
Crane the Weave									
Disease Detectives	209 Hubbard								
Ecology	211 Hubbard								
Food Science	111 Matheson								
Geology	214 Matheson								
Math Mystery	307 Hubbard								
Mystery Architecture	412 Hubbard								
Oceanography	104 Denney								
Search for the Stars	127 Adams								
Seed Science	215 SSC								
Sub-Cross	221 SSC	7:45-8:30							
Wicks and Minerals	100 Denney								
Science Crime Builders	202 Matheson								
Science Word	307 SSC								
Screwdriver	Matheson	7:45-8:30							
Simple Machines	521 Adams								
Tower Building	337 SSC	7:45-8:30							
Trjectory	355 Matheson	7:45-8:30							
White n. Dn B	307 SSC								
White n. Spd 1/2 Jams									

Team Schedule

2008 Kansas Science Olympiad Team Schedule			
School Name: Ruppenthal Middle School		Team Number: 8 01	
Coach: Jim Balhazor		Home Room: Hubbard 227	
EVENT	Impound Time	Participation Time	Location
Amphibians and Reptiles	none	3:00 pm	304 Hubbard
Anatomy	none	3:00 pm	339 Hubbard
Balloon Launch Older	none	9:00 am - 11:00 am	99005 Gym
Bio Process Lab	none	11:00 am	430 Hubbard
Crane the Weave	none	11:00 am	210 Hubbard
Disease Detectives	none	10:00 am	209 Hubbard
Ecology	none	10:00 am	211 Hubbard
Food Science	none	9:00 am	111 Matheson
Geology	none	1:00 pm	214 Matheson
Math Mystery	none	1:00 pm	307 Hubbard
Mystery Architecture	none	12:00 pm	412 Hubbard
Oceanography	none	10:00 am	104 Denney
Search for the Stars	none	1:00 pm	127 Adams
Seed Science	none	1:00 pm	215 SSC
Sub-Cross	7:45 - 8:30 a.m.	10:00 am	221 SSC
Wicks and Minerals	none	3:00 pm	100 Denney
Science Crime Builders	none	3:00 pm	202 Matheson
Science Word	none	3:00 pm	307 SSC
Screwdriver	7:45 - 8:30 a.m.	11:00 am	307 Adams
Simple Machines	none	9:00 am	521 Adams
Tower Building	7:45 - 8:30 a.m.	9:00 am	337 SSC
Trjectory	7:45 - 8:30 a.m.	9:00 am	355 Matheson
White n. Dn B	none	9:00 am	307 SSC
White n. Spd 1/2 Jams	none	9:00 am	Hubbard Gym

2008 Kansas Science Olympiad Team Schedule			
School Name: Ruppenthal Middle School		Team Number: 8 01	
Coach: Jim Balhazor		Home Room: Hubbard 227	
EVENT	Impound Time	Participation Time	Location
Amphibians and Reptiles	none	3:00 a.m.	314 Hubbard
Anatomy	none	3:00 a.m.	337 Adams
Balloon Launch Older	none	9:00 a.m.	99005 Gym
Bio Process Lab	none	10:00 a.m.	309 Hubbard
Crane the Weave	none	10:00 a.m.	307 Hubbard
Disease Detectives	none	10:00 a.m.	304 Hubbard
Ecology	none	10:00 a.m.	306 Denney
Food Science	none	10:00 a.m.	307 SSC
Geology	7:45 - 8:30 a.m.	10:00 a.m.	312 Hubbard
Math Mystery	none	11:00 a.m.	310 Hubbard
Mystery Architecture	none	11:00 a.m.	412 Hubbard
Oceanography	none	10:00 a.m.	104 Denney
Search for the Stars	none	10:00 a.m.	127 Adams
Seed Science	none	10:00 a.m.	215 SSC
Sub-Cross	7:45 - 8:30 a.m.	11:00 a.m.	218 SSC
Wicks and Minerals	none	1:00 pm	100 Denney
Science Crime Builders	none	1:00 pm	202 Matheson
Science Word	none	1:00 pm	311 Matheson
Screwdriver	7:45 - 8:30 a.m.	11:00 a.m.	312 Adams
Simple Machines	none	1:00 pm	521 Adams
Tower Building	7:45 - 8:30 a.m.	1:00 pm	337 SSC
Trjectory	7:45 - 8:30 a.m.	1:00 pm	355 Matheson
White n. Dn B	none	1:00 pm	311 Matheson
White n. Spd 1/2 Jams	7:45 - 8:30 a.m.	9:00 am - 9:15	310 SSC

State Tournament Team Scoring

Place	Score
1	1 pts.
2	2 pts.
3	3 pts.
...	...
No participation	31 pts.
Disqualified	32 pts.

Awards

- Large school and small school divisions
 - High school – 900 students
 - Middle School – 350 students
- Medals in each event
- Team trophies
- Invitation to the National Tournament



Comments from Students

- I got more interested in science
- I learned science can be fun
- It has only reinforced my love for science
- Yes, it makes me think more about the process and less about just the facts.
- Before I was interested in science, but thought it would be difficult and boring when applied to life. Now I know that science is difficult, but a lot of fun. I know it is something I can do and understand. Science Olympiad has been very encouraging.
- Science is made more fun, challenging and exciting by Science Olympiad.



Comments from Coaches

- I find the problem solving that goes on to be the greatest benefit. It's fun to see the kids take their ideas, put them to work, and test them where they can be judged.
- They gain confidence and most increase their enjoyment of learning about science.
- They become better science students and this in turn rubs off on other students.
- They are more responsible, better problem solvers, better researchers. They can do things on their own and have an increased sense of self worth from participating in this worthwhile event.



Science Olympiad Video

Available for check out

Thank you for attending

If you ever have any questions,
please contact us

The regular coaches workshop
will begin at 9:00 a.m.