

REQUIRED & ALLOWED ITEMS

San Diego Regional Science Olympiad Competition Division C February 18, 2012

This list attempts to clarify the **required & allowed items** for the events. Also listed are **optional** items. **Pens or pencils are required for most written events.** Resources = **books, photocopies, notes** on single sheets or punched and attached to rings in the binder. **NO CELL PHONES IN EVENT AREAS.**

EVENT	Safety Goggles REQUIRED	Lab Coat or Apron REQUIRED	Other required materials REQUIRED	Calculators ALLOWED Per student	Notes & Resources ALLOWED PER TEAM
Anatomy and Physiology				Non-programmable, non-graphing	One 8.5"x11" two-sided page of notes
Astronomy				Programmable calculator	One Laptop OR one 3-ring binder with resources attached to rings per team member – NO internet access
Chemistry Lab	#4	Long-sleeved shirt AND lab apron OR Long-sleeved lab coat to the knees	Closed-toed shoes Clothes to the ankles	Non-programmable, non-graphing	No reference materials Gloves are optional
Disease Detectives				Non-programmable, non-graphing	One 8.5"x11" two-sided page of notes
Dynamic Planet				Non-graphing	Four 8.5"x11" two-sided pages of notes
Experimental Design	#4		Writing instrument	Non-programmable	No notes. Timepiece & ruler optional
Fermi Questions				No	No reference materials
Forensics	#4	Long-sleeved shirt AND lab apron OR Long-sleeved lab coat to the knees	Kit suggested – see event description 2.a. Clothes to the ankles Closed-toed shoes	Non-programmable	One 8.5"x11" two-sided page of notes Gloves are optional
Forestry				No printed labels, no electronic devices	One 8.5"x11" two-sided page of notes <u>Two</u> published field guides, <u>One</u> Official tree list - notes on front OK, no notes on back of list pages
Gravity Vehicle			One vehicle, one ramp		Any tools
Helicopters			One or two helicopters Flight Log		
Microbe Mission	#4			Non-programmable, non-graphing	One 8.5"x11" two-sided page of notes
Optics				Any type	One 3-ring binder, resources attached to rings – any size Any measuring tool, templates, writing implements
Protein Modeling				No internet access, no calculators	Five 8.5" x 11" pages of notes – double sided

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Remote Sensing				Non-graphing	Five 8.5" x 11" pages of notes – double sided; Two metric rulers, protractors, triangles; magnifying glass
Robot Arm	#5		One device		
Rocks & Minerals					One 3-ring binder, resources attached to rings – any size One magnifying glass One published field guide with tabs
Sounds of Music			Score of all music to be performed, 2 instruments	No	No
Technical Problem Solving	#4			Non-programmable, Non-graphing	No
Thermodynamics	#4		Insulating device, 2 identical 250 ml Pyrex beakers, graphs, writing utensils	Any type	One 3-ring binder, resources attached to rings – any size
Towers	#2 or higher		Tower		
Water Quality	#4			Non-programmable, non-graphing	One 8.5"x11" two-sided page of notes
Write It, Do It			Pen or pencil		Blank Clipboard for Write It

Please put your school name on each of these items so that we can return them to you if they are left behind.

The following is from the National SO website. • http://soinc.org/eye_protection

• **Note:** “Unvented goggles and Chemical Splash Goggles that seal tightly to the face completely around the eyes bearing the Z87 mark may be used in lieu of any of the other types of eye protection numbered 1-4. If you have one such goggle that has ANSI Z87+ on them, that one goggle would meet the requirements for all five (1-5). “

Only #s 2, 4 & 5 are specified by the 2012 events.

2. Safety Spectacles with Side Shields (ANSI Z87)

Similar to Safety Spectacles above, they provide particle protection only. These will be specified when there is a probability of particles entering the eye from the side. This condition commonly occurs when multiple contestants/teams are engaged in an activity simultaneously.

4. Chemical/Splash Protection Goggles (ANSI Z87)

These must seal tightly to the face completely around the eyes and **have indirect vents**. These 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 from one side to the other, they are direct vents and the goggles may not be used when Chemical/Splash Protection is required.** Chemical/Splash Protection goggles may be worn to provide particle protection in lieu of any of the types mentioned above (1-4).

5. High Impact Protection (ANSI Z87+)

Another attribute to be considered is Impact Protection. Protective eyewear bearing the mark "Z87" provides basic impact protection. Devices that meet the "High Impact" specifications of ANSI Z87.1-2003 are identified by the mark "**Z87+**".

High Impact protection is indicated 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 with the words "High Impact" e.g. High Impact Particle Protection Goggles or Spectacles.

11/18/11