

# Eye Protection for the 2012 San Diego Regional Competition

## Division B

Event	#2	#4	#5
Bottle Rocket			X
Crime Busters		X	
Experimental Design		X	
Food Science		X	
Keep the Heat		X	
Microbe Mission		X	
Mission Possible	X		
Mousetrap Vehicle			X
Storm the Castle			X
Towers	X		
Water Quality		X	

## Division C

Event	#2	#4	#5
Experimental Design		X	
Forensics		X	
Microbe Mission		X	
Robot Arm			X
Technical Problem		X	
Thermodynamics		X	
Towers	X		
Water Quality		X	

Since Chem Lab C will not have a wet lab at our Regional Competition, no eye protection is necessary.

The following is from the National SO website. • [http://soinc.org/eye\\_protection](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.