



Science Olympiad Eye Protection

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Science Olympiad Eye Protection Category	Science Olympiad Definition	Lowest Safety Requirement	Ward's Science Product/ Item Number	Ranking of Eye Protec.	Can be used for
1. Safety Spectacles	These are commonly referred to as safety glasses. They provide particle protection only and may not be used in lieu of any other type of protective eyewear.	ANSI Z87	Pegasus Safety Spectacles—153090 Laboratory Spectacles—153074 Economy Safety Spectacles—153055 Wraparound Safety Spectacles—153070	Z87+ Z87+ Z87+ Z87+	High Impact Safety Spectacles or High Impact Safety Spectacles with Side Shields
2. Safety Spectacles with Side Shields	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. Safety Spectacles with Side Shields may be used in lieu of Safety Spectacles without side shields.	ANSI Z87	Pegasus Safety Spectacles—153090 Laboratory Spectacles—153074 Economy Safety Spectacles—153055 Wraparound Safety Spectacles—153070	Z87+ Z87+ Z87+ Z87+	High Impact Safety Spectacles with Side Shields
3. Particle Protection Goggles	These 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. They may not be used when handling hazardous liquids because the vents provide a direct path for the liquid to enter the eye. They may be used in lieu of Safety Spectacles with/without side shields.	ANSI Z87	Plastic Impact Goggles, Direct Vent—153118 Plastic Impact Goggles, Fogless—153049	Z87 Z87	Particle Protection Goggles
4. Chemical/Splash Protection Goggles	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).	ANSI Z87	Polycarbonate Lens Chemical Goggles, Antifog Coating—153222 Polycarbonate Lens Chemical Goggles, Uncoated—153046	Z87+ Z87+	High Impact Chemical/Splash Protection Goggles
5. High Impact Protection	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 hazards (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". e.g. High Impact Particle Protection Goggles or Spectacles.	ANSI Z87+	Any of the above, except for Particle Protection Goggles (153118 and 153049)		

For more information about eye protection requirements and regulations, visit soinc.org/eye_protection

