

MARCH Event Notes for Coaches and Supervisors

The official Science Olympiad website publishes rule clarifications at http://www.soinc.org/official_rules_clarif. You may also submit requests for rule clarifications there. Our Event Supervisors will monitor this site. **The Region 12 tournament considers both National rule clarifications and FAQs issued prior to February 23 to be the official rules. After that, we will not require compliance.** Additional information is available at www.soinc.org.

ALL EVENTS

Please check our regional website at www.gvsu.edu/mso-r12 for all Region 12 Michigan Science Olympiad information and updates.

MSO EVENT LOCATIONS: Headquarters, Registration, and various events are in the Fieldhouse Arena and Recreation Center. All remaining events will take place in the Cook Dewitt Center, Kindschi Hall of Science, Mackinac Hall, Manitou Hall, and Padnos Hall of Science.

- Students are expected to be present at the start of events, including self-scheduled times. Arriving late may keep them from competing. Accommodations will be made if possible, but there is no guarantee.
- Be aware there are **strict goggle rules** and be sure students are dressed in the appropriate safety clothing and gear for events calling for protective items.

Please remind students to take all of their equipment or devices with them after they are finished competing unless they anticipate going to arbitration.

Regional Notes

Mission Possible	C	The Action Sequence List (ASL) must be uploaded in the Coaches Portal or emailed to Chelsea Ridge, ridgec@gvsu.edu by Sunday March 11, 5pm. Self-scheduled slots are 50 minutes long. Teams will have 30 minutes to setup their device. If students are ready to test their device before their 30 minutes has passed, they may. Thus, teams may not require the entire 50 minutes at this event. This event will have a voluntary Impound at the event site.
Hovercraft	B & C	These events are CLOSED to spectators.
Experimental Design	B & C	Do not bring a completed rubric. Bringing a completed rubric will result in disqualification. Experimental Design will not be done in stations.
Helicopters	C	Helicopters will be run in the racquetball courts. Only competitors will be allowed into the courts, notify us of students with special mobility needs. Please note the rules about timing have changed this year
Trial Events	B & C	We will be running Pentathlon and Source Code as trials for both divisions.
Mackinac Hall Events	B & C	This year more events are being held in Mackinac Hall on the lower level and 2 nd floor. Students with special mobility needs may use the building elevators to access these events.
Vernier timers		Battery Buggy and Hovercraft will be using Vernier timers for their events again this year.
Binder and Notes	B & C	Binder and note sheets, permitted by the rules, can be typed and printed or handwritten. They must be in the bindings at the start of the event, but can be removed during the event.
Write It Do It	B/C	A reminder to your students that not all the items provided may be required in the build. Additional items are often provided as "distractors."

National CLARIFICATIONS

SPECIFIC EVENT	DIV	Clarifications																								
Battery Buggy	B	7.b. should read, edits in bold: Each Run Score is the sum of four (4) components: Time Score, Distance Score, Center Line Bonus and Penalties .																								
Forensics	C	3.a. should read, edits in bold: a. The competition will consist of evidence from Parts 3.b.-e. and analysis of the evidence in Part 3.f. Analysis or questions can only be on the evidence topics included in the competition. The amount of evidence included will be according to the following table:																								
		<table><tr><th>Level</th><th># Part b samples</th><th># Part c samples</th><th>Part d chromatograms</th><th>Part e</th><th>Part f</th></tr><tr><td>Regional</td><td>3-8</td><td>5-9</td><td>1 type + Mass Spectra</td><td>1-2 topics</td><td>Required</td></tr><tr><td>State</td><td>6-10</td><td>6-12</td><td>1-2 types + Mass Spectra</td><td>1-3 topics</td><td>Required</td></tr><tr><td>National</td><td>10-14</td><td>10-18</td><td>1-3 types + Mass Spectra</td><td>3-5 topics</td><td>Required</td></tr></table>	Level	# Part b samples	# Part c samples	Part d chromatograms	Part e	Part f	Regional	3-8	5-9	1 type + Mass Spectra	1-2 topics	Required	State	6-10	6-12	1-2 types + Mass Spectra	1-3 topics	Required	National	10-14	10-18	1-3 types + Mass Spectra	3-5 topics	Required
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The collected evidence and other data given could be used in a mock crime scene. (This sentence not labeled with a.) To adjust the Forensics scoring so it matches the table, 4.b. should read: 4.b. The score will be composed of the following elements (percentages given are approximate): Part 3.b. 20%, Part 3.c. 20%, Part 3.d. 15%, Part 3.e. 15% and 3.f. 30%.																										
Mission Possible	C	Three sections should read, edits shown in strikethrough and bold: 4.b.vi. Use light to initiate a chemical reaction to begin the next action. 4.b.xi. Use a thermal reaction a change in temperature which expands a gas to activate the next action. 4.f. Timing and scoring begins when a competitor pulls a magnet from the device and Timing stops when the beginning of the word “END” is heard or when 180.0 seconds elapses, whichever comes first.																								
Mousetrap Vehicle	C	3.e. should read, edits in bold: An approximately 1/4" diameter round dowel must be attached to the vehicle approximately perpendicular to the floor. The bottom of the dowel must be ≤ 1.0 cm from the track's surface and must be easily identified by the event supervisor .																								
Roller Coaster	B	5.c. should read, edits in bold: Height Score = (100 - device height). The device height is measured in cm at the highest part of the device measured from the floor or the table (if used) rounded down to the nearest cm.																								

National FAQ's

Please visit <https://www.soinc.org/events/frequently-asked-questions> to review FAQs about the following events. **These FAQs are very important for Teams and Event Supervisors to review! All of the events listed below have FAQs.**

Battery Buggy	B
Crime Busters	B
Disease Detectives	B & C
Dynamic Planet	B & C
Ecology	B & C
Experimental Design	B &
Fast Facts	B
Helicopters & Game On	C
Herpetology	B & C
Material Science	C

Hovercraft	B & C
Mission Possible	C
Roller Coaster	B
Thermodynamics	B & C
Towers	B
Wright Stuff	B

Please note the FAQs in regards to calculators and double sided pages.