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SCIENCE OLYMPIAD



## Western Illinois University Regional (Div. C) Awards



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## Western Illinois University Regional (Div. C) Awards

Since 1987 the Science Education Center has hosted the Western Illinois University Regional Science Olympiad competition. Approximately 15-20 junior high/middle schools and high schools participate in this event. School teams compete in science events which requires students to demonstrate their knowledge in science content and science process skills as well as scientific technological process and skills.



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## SCIENCE OLYMPIAD

### Already thinking about 2022?



- Please check the [Western Illinois University Regional Science Olympiad](#) website every periodically for updates to the February 12, 2022 tournament.
- Please visit the rest of the WIU Science Center Website. Virtual science museum, Rocket Club, The Rock and Mineral Room, Science Resources and Workshops.
- If you or your students would like to purchase Science Olympiad gear, check out our [new virtual store](#).



## 2021 WIU Regional Schools/Teams (C-Division)

- Canton High School (Coach: Lynn Isbell)
- Farmington Central High School (Coach: Jeff Weyers & Trish Fields)
- Lewistown Junior-Senior High School (Coaches: Gina Simpson & Wendy Johnson)
- Liberty High School (Coaches: Rochelle Luaders & Stephanie Hodgson)
- Macomb Senior High School (Coach: Thomas Johnson)
- Mercer County High School (Coaches: Cindy Simpson & Matthew Simpson)
- Rochester High School (Coaches: Molly Godar & Rhonda Goad)
- Western Community Unit School (Coach: Misti McCallister)



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## Thank you to ALL involved in ISO!

- Thank you to all Coaches and Event Supervisors!
- Thank you to ISO! (Michele Chapman, Joe Simmons, Heather Rocen, Don Powers & other State Organizers)
- Thank you to Student TEAMS and all those who participated!
- Thank you to Western Illinois University faculty and staff!



**Release of Final Scores and Point Totals for Division C Teams:** After the Awards Presentation, Tournament scores will be published in Avogadro and should include what is below.

- Final Results Handout
- Results Grid
- Raw Scores Results Grid
- Results by Team Group Grid

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## **Mailing of Medals and Trophies**

Team coaches need to contact Sebastian (SP-Szyjka@wiu.edu) and make arrangements to either have awards mailed to a school or home address or pick them at the School of Education office located in Horrabin Hall Room 115. Please indicate how many total medals are estimated for your team for all events after you review the results.

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And Now...The Presentation of Division-C Awards!





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## Anatomy & Physiology C-Division

**DESCRIPTION:** Participants will be assessed on their understanding of the anatomy and physiology for the human Integumentary, Skeletal, and Muscular systems.

-  1. Canton High School
-  2. Macomb Senior High School
-  3. Rochester High School
-  4. Lewistown Junior-Senior High School

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## Astronomy C-Division

**DESCRIPTION:** Teams will demonstrate an understanding of Star and Galaxy Formation and Evolution.



1. Western High School



2. Rochester High School



3. Canton High School



4. Lewistown Junior-Senior High School

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## Boomilever C-Division

**DESCRIPTION:** Teams will design and build a Boomilever meeting requirements specified in these rules to achieve the highest structural efficiency.

 1. Liberty High School

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## Chemistry Lab C-Division

**DESCRIPTION:** Teams will complete one or more tasks and answer a series of questions involving the science processes of chemistry focused in the areas of Aqueous Solutions and Acids & Bases.

 1. Macomb Senior High School

 2. Canton High School

 3. Rochester High School

 4. Farmington Central High School



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## Circuit Lab C-Division

**DESCRIPTION:** Participants must complete tasks and answer questions about electricity and magnetism.

-  1. Rochester High School
-  2. Canton High School
-  3. Macomb Senior High School
-  4. Farmington Central High School

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## Code Busters C-Division

**DESCRIPTION:** Teams will cryptanalyze and decode encrypted messages using cryptanalysis techniques for historical and modern advanced ciphers.



1. Lewistown Junior-Senior High School



2. Macomb Senior High School



3. Rochester High School



4. Western High School

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## Designer Genes C-Division

**DESCRIPTION:** Participants will solve problems and analyze data or diagrams using their knowledge of the basic principles of genetics, molecular genetics and biotechnology.

-  1. Canton High School
-  2. Western High School
-  3. Rochester High School
-  4. Mercer County High School

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## Detector Building C-Division

**DESCRIPTION:** Teams will build a durable temperature-sensing Device that will accurately measure, and display temperatures between 0°C to 75°C to determine the temperature of four different water samples.



1. Canton High School



2. Farmington Central High School



3. Mercer County High School



4. Macomb Senior High School



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## Disease Detectives C-Division

**DESCRIPTION:** Participants will use their investigative skills in the scientific study of disease, injury, health, and disability in populations or groups of people.

 1. Rochester High School

 2. Canton High School

 3. Mercer County High School

 4. Liberty High School

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## Dynamic Planet C-Division

**DESCRIPTION:** Teams will complete tasks related to physical and geological oceanography.



1. Canton High School



2. Rochester High School



3. Mercer County High School



4. Farmington Central High School

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## Experimental Design C-Division

**DESCRIPTION:** This event will determine the participant's ability to design, conduct, and report the findings of an experiment entirely on-site.

 1. Rochester High School

 2. Macomb Senior High School

 3. Canton High School

 4. Farmington Central High School

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## Forensics C-Division

**DESCRIPTION:** Given a scenario and some possible suspects, students will perform a series of tests. These tests, along with other evidence or test results, will be used to solve a crime.



1. Rochester High School



2. Canton High School



3. Liberty High School



4. Farmington Central High School



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## Fossils C-Division

**DESCRIPTION:** Teams identify and classify fossils and demonstrate their knowledge of ancient life by completing tasks related to interpretation of past environments and ecosystems, adaptations and evolutionary relationships, and use of fossils in dating and correlating rock units.

-  1. Liberty High School
-  2. Canton High School
-  3. Western High School
-  4. Rochester High School

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## Geologic Mapping C-Division

**DESCRIPTION:** Teams will demonstrate understanding in the construction and use of topographic maps, geologic maps, and cross sections, and their use in forming interpretations regarding subsurface structures and past depositional environments.



1. Liberty High School



2. Macomb Senior High School



3. Canton High School



4. Farmington Central High School

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## Gravity Vehicle (Trial) C-Division

**DESCRIPTION:** Teams design, build, and test one Vehicle and Ramp that uses the Vehicle's gravitational potential energy as its sole means of propulsion to reach a target as accurately as possible.



1. Lewistown Junior-Senior High School



2. Rochester High School

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## Machines C-Division

**DESCRIPTION:** Teams will complete a written test on simple, Division B, and compound, Division C, machine concepts and construct a lever-based measuring device prior to the tournament to determine the ratio between two masses.

-  1. Farmington Central High School
-  2. Rochester High School
-  3. Liberty High School
-  4. Lewistown Junior-Senior High School

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## Ornithology C-Division

**DESCRIPTION:** Participants will be assessed on their knowledge of North American birds.



1. Mercer County High School



2. Rochester High School



3. Macomb Senior High School



4. Lewistown Junior-Senior High School



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## Ping Pong Parachute (Trial) C-Division

**DESCRIPTION:** Prior to the tournament, teams will design, build, and bring up to two bottle rockets to the tournament to launch a ping pong ball attached to a parachute to stay aloft for the greatest amount of time.



1. Lewistown Junior-Senior High School



2. Liberty High School

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## Protein Modeling C-Division

**DESCRIPTION:** Participants will use computer visualization and online resources to construct a physical model of a protein that is being used with CRISPR Cas9 to edit plant and animal genomes. This year's event will focus on modifications to Cas9 that make it useful for base-editing.



1. Canton High School



2. Lewistown Junior-Senior High School



3. Rochester High School



4. Farmington Central High School

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## Sounds of Music C-Division

**DESCRIPTION:** Teams must construct and tune one device prior to the tournament based on a two-octave 12-tone equal tempered scale and complete a written test on the physics of sound and music concepts.

-  1. Rochester High School
-  2. Liberty High School
-  3. Mercer County High School
-  4. Canton High School

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## Water Quality C-Division

**DESCRIPTION:** Participants will be assessed on their understanding and evaluation of marine and estuary aquatic environments.

-  1. Mercer County High School
-  2. Macomb Senior High School
-  3. Rochester High School
-  4. Canton High School

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## Write It, Do It C-Division

**DESCRIPTION:** One participant will write a description of an object and how to build it. The other participant will attempt to construct the object from this description.

-  1. Farmington Central High School
-  2. Lewistown Junior-Senior High School
-  3. Macomb Senior High School
-  4. Canton High School



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## Overall Scores C-Division

-  1. Rochester High School - 53
-  2. Canton High School - 56
-  3. Macomb Senior High School - 77
-  4. Liberty High School - 89



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Thank you for attending! See you in 2022!

