



2024-2025 MSO Event Descriptions

Division A Elementary School

A is for Anatomy - Teams will rotate through a set of stations where they will view models, slides, and images to identify organs. This test will focus on the structure and function of the muscular and digestive system.

Aerodynamics - Teams will be tasked with constructing a paper airplane to be flown at least five meters to land on a predetermined target.

Clay Boats - Each team will build a boat from clay, launch it and fill it with the greatest number of plastic gram cubes before sinking.

Code Busters - In this event, teams will analyze and decode encrypted messages using a variety of ciphers.

Deep Blue Sea - Teams will be tested on their knowledge of oceanography. Topics tested include ocean flora and fauna, exploration equipment, and physical features and phenomena.

Don't Bug Me - Participants will distinguish insects from non-insects, identify various body parts, characteristics, habitats, ecological significance, life cycles, and major orders of insects.

Elements, Compounds, and Mixtures - Each participant will classify materials into one of the three possible categories.

Fossil Find - This event will have participants acting as amateur paleontologists to construct an environmental grid based on fossil examples.

Grasp a Graph - The objective is to develop the skills of collecting and organizing information using pictographs, bar, line and pie graphs to solve problems.

Lego Racer (Trial) -

Map Reading - Participants will be tasked with answering two-part questions using various kinds of maps.

Metric Mastery - Teams will be tested on their ability to first estimate and then later take measurements of different objects using SI units.

Mystery Liquids - Teams will identify mystery liquids.

Pentathlon - In this relay-style event, teams of 4-5 will participate in five physical skills interspersed with science questions.

Plastics Detectives - In this lab event, teams will be responsible for developing a classification and identification key for six samples of plastic. Teams will then take a test on the six most commonly used plastics in the country.

Science Jeopardy - Based upon the television game show, teams will pick and answer questions of various difficulties within different set categories.



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Sink or Float - Students will demonstrate their ability to determine which objects will sink and which will float.

Weather or Not - Teams will be tested on their knowledge of meteorological terms, techniques, and events.

Write It/Do It - A technical writing exercise where teams write a description of a contraption and other teams will attempt to recreate it using only the written description.