



WESO 2019 Brief Event Descriptions

Aerodynamics

2nd and 3rd Grades

1-2 participants each grade

Participants will build and fly paper airplanes for distance, time, and accuracy.

Back To Nature: Geology Rocks!

4th and 5th Grades

1-2 participants each grade

Participants will be tested on their knowledge of basic geologic processes and mineral properties through hands-on activities and short questions.

Barge Building

2nd Grade

1-2 participants

Participants will construct a barge using the given material that can support a cargo of the largest number of weighted objects without getting them wet.

Circuit Wizardry

4th and 5th Grades

1-3 participants each grade

Participants will be tested on basic electrical circuit concepts, components, schematic reading and understanding, and ability to design and build a simple circuit from a functional description.

Estimania

All Grades

1-3 participants each grade

Teams will be asked to estimate answers to questions of measurement or numerical approximation and use their estimation skills to solve a mystery.

Feathered Friends

2nd and 3rd Grades

1-2 participants each grade

Participants will be tested on bird identification by sight and sound, anatomy (structure and function), life history, and habitat characteristics.

GENE-ius

4th and 5th Grades

1-3 participants each grade

Explore the world of genetics! What are DNA and genes, and how do they affect you? Teams will use their basic understanding of heredity, genes, DNA, and chromosomes to complete genetic puzzles like pedigrees, simple crosses, and gene/codon reading.

Gravity Racer

2nd and 3rd Grades

1-3 participants each grade

Each team will build a four-wheeled vehicle out of a kit of materials. Teams will launch their racers down a ramp towards a target.

Hang Time

3rd, 4th, and 5th Grades

1-4 participants per grade

Teams launch an indoor water rocket with the goal of floating a payload object safely back to the ground.

iCompute

4th and 5th Grades

1-2 participants each grade

Participants will be tested on their knowledge of basic computing concepts, including hardware and software, their understanding of how computers solve problems, and their ability to create a simple program.

In Bloom

2nd and 3rd Grades

1-2 participants each grade

Students will be tested on their knowledge of plants, including grasses, flowers, and trees.

Map Reading

All Grades

1-2 participants each grade

Using various kinds of maps, students will test their map reading skills to answer geographic questions. For 4th and 5th grades, the event will follow a Road Scholar format where the students are asked to solve a mystery using maps as clues.

Mystery Architecture

All Grades

1-2 participants each grade

Each team will be given a bag of materials to build a structure that can support a ball. The tallest structure wins.

No Bones About It

2nd and 3rd grades

1-3 participants each grade

Students will learn about the human skeletal system: structure, function, and identification. They will use this knowledge to answer questions pertaining to bones, and identify bones at stations throughout the room.

On Target

All Grades

1-3 participants each grade

Each team will build missiles, utilizing a precision straw as the missile body (all materials being provided by WESO). The accuracy of the missiles launched indoors at a fixed target will be tested.

Pasta Bridges

2nd and 3rd Grades

1-2 participants each grade

Participants will build a bridge using the materials supplied to support a cup (in the middle of the bridge) with as many small weights as possible.

Photon Phun

All Grades

2-3 participants each grade

Teams of 2-3 students will use mirrors to aim a light beam at stationary targets in a darkened room. Teams will also answer written questions on the behavior and properties of light.

Potions

4th and 5th Grades

1-2 participants each grade

Each team will answer questions about basic forensic science chemistry concepts and complete several simple chemistry experiments, exercising basic lab skills and safety procedures to figure out the culprit of a crime.

To Infinity And Beyond

All Grades

1-2 participants each grade

Using a planetarium (or planetarium software) and a written test, students will demonstrate an understanding of, and familiarity with, the solar system, the night sky, seasons, stars, and galaxies

Write It, Build It

4th and 5th Grades

2-4 participants each grade

One or two team members will be shown a “picture” and will write a description of it. In a separate room, one or two other team members will be given the pieces of the “picture” and the written description and attempt to rebuild it. The team with the most pieces placed correctly wins. This event tests a team’s ability to clearly communicate in writing and follow written directions.

Zip-A-Dee-Doo-Dah

4th and 5th Grades

1-3 participants each grade

Given a few household materials, each team will construct a cable car capable of safely carrying a ping-pong ball down a zip line. The objective will be to achieve a target run time which will be revealed on the day of the event. There will be a short written portion testing the physics concepts of the zip line.