



# Tournament Events

## PERIOD ONE

Rank the top three preferences

### **BACKYARD BIOLOGIST - [F]**

Teams will learn about living organisms that they may encounter in their own backyard.

### **CHEW THE FAT - [W]**

Teams will learn about the digestive system of the human body and nutrition.

### **DESCRIBE IT, BUILD IT - [T]**

One member will write a description of how to build a device for the other member to re-construct.

### **WEATHER PERMITTING - [M]**

Teams conduct investigations to build an understanding of weather & climate with a special focus on severe storms.

### **321 BLAST OFF! - [F]**

Teams construct rockets made from 2 liter soda bottles.

### **WHAT'S THE MATTER? - [A]**

Teams will learn about physical properties of matter and behavior of solids, liquids & gases.

### **WORK IT OUT - [Th]**

Teams of 4 will compete in a relay race to show their overall understanding of the topics covered in NCSO events this year.

## PERIOD TWO

Rank the top three preferences

### **DATA CRUNCHERS - [M]**

Teams will understand data collected from scientific experiments, interpret graphs & measure in basic units.

### **BRIDGE-A-RONI - [M]**

Teams will design and build the lightest & strongest bridge possible made from only pasta and glue.

### **DUCT TAPE CHALLENGE - [W]**

Teams will be given a set of materials, including Duck Tape, and a task to build on site within a given time frame.

### **321 BLAST OFF! - [F]**

Teams construct rockets made from 2 liter soda bottles.

### **FOSSIL FRENZY - [M]**

Teams will learn about geologic time, dinosaurs, fossils and the fossilization process.

### **STEM DESIGN CHALLENGE - [W]**

Teams of 3 will be given a challenge to complete in advance using only K'nex pieces; then build on site.

### **SUPER SLEUTHS - [Th]**

Teams become scientific detectives to solve a crime and name the perpetrator.

### **THE HEAT IS ON - [T]**

Students will learn of energy forms, transfer of energy, physical changes, and changes in states of matter due to heating and cooling.

## PERIOD THREE

Rank the top three preferences

### **ECOLOGY EXPERTS - [F]**

Teams will learn about Forests, Deserts & Grasslands including the ecology and roles and interaction of living and nonliving things within them.

### **BRIDGE-A-RONI - [M]**

Teams will design and build the lightest & strongest bridge possible made from only pasta and glue.

### **MOVERS & SHAKERS - [WE]**

Teams will learn about plate tectonics, earthquakes, volcanoes and related land formations.

### **SCIENCE PASSWORD - [Th]**

Team members will take turns giving clues for a set of scientific terms or concepts from across all K-5 science and math objectives for their teammates to guess.

### **SKY QUEST - [W]**

Teams will learn about the solar system including the sun, moon, planets, rotation and revolution, moon phases, seasons & identify constellations/stars.

### **TRAJEGGTORY - [F]**

Teams will build a device constructed to protect a raw egg from breaking when dropped to the floor.

### **PROGAMERS - [W]**

Teams will use Scratch programming language to recreate a game.

## Important Dates

December 1 - Registration deadline

March 3 - Practice Tournament

March 24 - Regional NCSO Tournament

## Meetings Scheduled

*Code in brackets next to the Event*

[ **M/T/W/Th/F** after school, **A** - After school TBD, **WE** - Weekend TBD ]

\* Note: please check website for schedule update

**Sign up at: [middlecreekpta.weebly.com/science-olympiad](http://middlecreekpta.weebly.com/science-olympiad)**

*If you are unable to register online, please contact one of the head coaches who will assist you:*

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