

The following is the official list of Elementary (Division A) events for the 2020 Elementary Science Olympiad Competition at FAU to be held on April 25, 2020. However, an event may be cancelled at any time. It is our intention to notify all participants by January 1, 2020 of any cancelled events. If an event is not covered by an event supervisor, any event may be cancelled in the week leading up to the competition.

**AERODYNAMICS-** Teams will build (on-site) paper airplanes using provided materials and test airplanes based on flight duration, distance to a target, and the ability to go through hoops.

***This is an ON SITE BUILD EVENT. Teams will be required to build during the building construction period as shown on the published schedule prior to the start of all events. Teams will test their devices later in the day.***

**A MATTER OF MATTER:** Teams will be asked questions or will conduct experiments at stations as they relate to the properties of matter. **Safety goggles are required.**

**BRIDGE BUILDING:** Teams will use straws to build a bridge to span an opening and hold mass.

***This is an ON SITE BUILD EVENT. Teams will be required to build during the building construction period as shown on the published schedule prior to the start of all events. Teams will test their devices later in the day.***

**CHEW THE FAT:** Teams will demonstrate knowledge of the human digestive system and proper nutrition. Students will also keep a food/nutrition log and bring it to competition.

**CRIME BUSTERS:** Students will use practices of chemistry to solve a crime.

**Safety precautions MUST be used. These include wearing self-brought safety goggles, wearing long pants and close-toed shoes, washing hands and not taste-testing. Bring writing instruments.**

**DEEP BLUE SEA:** This event will test students' knowledge about oceanography.

**ESTIMANIA:** Students will be asked to estimate answers to questions or complete task related to estimation.

**MISSION POSSIBLE:** Participants will design, build, bring, and test a Rube Goldberg-like device which incorporates specific actions to accomplish a given task in one (1) minute. Devices will be constructed prior to the competition.

**This is a PRE-BUILT EVENT.**

**NAME THE SCIENTIST:** Teams will identify prominent scientists and their contributions to their fields. Basic scientific practices will also be tested.

**PICTURE THIS – SPACE:** The objective is to have a team member draw a representation of a particular space term or concept for team members who must guess the term while watching it being drawn.

**REFLECTION RELAY:** Three team members cooperate to bounce a light beam (from a laser pointer, etc.) onto a predetermined target.

**ROCK HOUND-** Students will compete to show their knowledge of rocks and minerals.

**TENNIS BALL CATAPULT:** Students will build and calibrate their own free-standing (not hand held) trajectory device that must be capable of “lobbing” a tennis ball at a target placed between 2 and 5 meters. **Students MUST bring and wear impact-resistant safety goggles. This is a PRE-BUILT EVENT.**

**TRAJEGGTORY:** Each pair of students will make a device to hold a large, raw egg. The device containing the egg will be tossed to clear a barrier and hit a target. **This is an PRE-SITE BUILT EVENT.**

**WEATHER PERMITTING:** Teams will be tested in their knowledge of conducting investigations and using appropriate technology to build an understanding of severe storms.