**Elementary Science Olympiad 2015**

**Events Description**

**Refer to the schedule for impound, theory and build events.**

**Cell Biology:** Students will be tested on cell structure and functions of animal and plant cells.

**Energy Box:** Teams must construct an insulated device prior to the tournament that is designed to retain heat.

**Experimental Design:** Given a set of unknown objects, teams will design, conduct, analyze and write-up an experiment.

**Metric Mastery:** Students will demonstrate an intuitive feeling for estimating and measuring metric units including mass, volume, area, surface area, force, distance, time and temperature.

**Mystery Architecture:** Teams of students build a structure based on restrictions and descriptions from materials given to them at the competition.

**Optics:** Students will be tested on basic knowledge of optics, including reflection, refraction, convex and concave mirrors and lenses, and the human eye.

**Pentathlon:**  Physical skills are interspersed with science questions in an obstacle course that will be run in a relay race style in which the whole team participates.

**Rubber Band Catapult:** The team will design and construct a catapult device to shoot a rubber band at a target that is placed within a given range

**Science Jeopardy:** Contestants choose a category and a level of difficulty from the game board and view and listen to an answer to a question. The first team to respond with an appropriate question for the answer will be awarded points and will choose the next topic and level.

**Solar System:** This event will address the Sun, planets, and their satellites, dwarf planets, comets, asteroids, the asteroid belt, meteoroids, Oort Cloud and the Kuiper Belt.

**Wheeled Vehicle:** Teams will build a small vehicle made out of wood to travel a short distance. Vehicles are propelled by a rubber band.