**1. Picture This:** Just like Pictionary, where one student draws the science words given and the other student guesses.

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

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

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

**5. 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.

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

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

**8. Circuit Design:** Students will be tested on series and parallel circuits and design a circuit based on given parameters.

**9. Rounding Off:** A math-based event where large and small numbers (in powers of 10) will be given for simple calculations.

**10. 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.

**11. 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.