**Scientific Method Challenge Rules**

**General Concept:** Based on the given a set of materials, teams of 3 design and outline an experiment using the Scientific Method. Schools may submit any number of teams of 3. The best performed and designed experiment wins.

**Time:** 30 minutes

**Competition:**

* Judges will distribute sheets of blank printer paper to each group. Each group will sit at a table with the provided materials.
* An event supervisor with a timer will indicate the start of the competition time with a countdown.
* Group members collaborate with each other to design an experiment using the materials provided at the competition. Not all materials need to be used for the experiment.
* Once having determined the experiment, competitors have to fill out an answer sheet that prompts students to:
	+ Write a hypothesis
		- “If..., then...”
	+ Collect data in the form of an organized table
	+ Define independent and dependent variables
	+ Make a graph
	+ List observations
	+ State any conclusions about the experiment and observations

**Materials:**

* Possible materials: Any 4 of these 5 materials will be provided at competition.
	+ 5 pennies
	+ Ping pong balls
	+ Toothpicks
	+ Styrofoam cups
	+ Straws
* Provided materials: These materials will be provided to all teams at competition.
	+ Up to 15 in. Tape
	+ Up to 18 in. String
	+ 3 sheets of blank paper
	+ 6 Rubber bands
* Provided tools:
	+ Stopwatch
	+ Rulers
	+ Pencils, sharpies