



**Science Olympiad - Division C -
March 3, 2012
Glendale Community College*
TENTATIVE Schedule of Events
Open to the Public**



Event	Time	Room
Gravity Vehicle	Open Event, 8:00-2:30	S side of Gym
Helicopters	Open event, 8:00-2:30	Gym
Robot Arm	Open event, 8:00-2:00	MU1-101
SolarPower	Open event, 8:00-2:00	FW-52
Towers	Open event, 8:00-2:00	S side of PS Lobby
WindPower	Open event, 8:00-2:00	FW-55

Brief Event Descriptions:

- Gravity Vehicle** Competitors must construct a ramp and a vehicle that uses gravitational potential energy as its sole means of propulsion. The vehicle must be able to travel a specified distance, and the competitor must be able to predict the time it takes to travel that distance.
- Helicopters** Students will construct and test free flight rubber-powered helicopters prior to the tournament to maximize flight times. Performance of helicopters will be evaluated on site.
- Robot Arm** Participants will design, build and test a robotic arm similar to those used in industry prior to the competition. This arm's ability to sort objects will be demonstrated and evaluated.
- Solar Power** In advance of the tournament, students will design and construct a device that uses solar thermal energy to bring food items to a specified temperature as rapidly as possible. They will be able to explain the principles of their design and show relevant preliminary testing data.
- Towers** Team members design and build the most efficient load-bearing tower.
- WindWatts** This event requires participants to design and construct a device that will convert wind generated from a standard 19" box fan and tunnel to DC electric power.

* College map: <http://www.gccaz.edu/map>

