

NSSL EVENT DESCRIPTION
APRIL 2007

“PRACTICAL PROBLEM SOLVING”

DESCRIPTION:

- Teams will be required to gather and process data to solve given problems from any areas of science. Intermediate measurements and calculations may be required.
- Only non-programmable and non-graphing calculators are permitted.
- The event will be a paper and pencil event.
- Students are required to apply scientific theories and principles in the solution of the problems presented. Students may make measurements and determine specific values. If needed, measuring tools will be provided.
- Note: the solution to some problems may be too large, small or obscure for direct measurement and must be arrived at by reasoning out an indirect method of obtaining the necessary data.
- All answers and/or equations used must be shown on the answer sheet provided. All answers must use the mathematical expressions that are required for the values and the correct equations for basic relationships.
- Students will be required to use correct metric units throughout calculations and to work with significant figures.
- Teams will be given up to 40 minutes maximum to complete the competition.

SCORING: Points will be awarded for correct answers and the use of proper mathematical relationships and expressing values in the proper units. In the event of a tie, the time of completion will be used as the tie-breaker.

EVENT RUNNERS: MS. BURCH AND MRS. SONNTAG
ANDOVER HIGH SCHOOL