

NCCTM Western Region Math Fair 2009

The NCCTM Western Region is sponsoring a Mathematics Fair for student projects on Saturday, March 28, 2009 in the Plemmons Student Union at Appalachian State University in Boone. Only students attending school in North Carolina are eligible to enter. Projects may be entered in the following categories:

**Grades K-2 (Individual or Class Projects)
Grades 3-5 (Individual or Class Projects)
Grades 6-8 (Individual Projects)
Grades 9-12 (Individual Projects)**

Class projects must involve a majority of the students in that class. Individual projects involve one or two students only. Projects must be pre-registered to be accepted for competition, and there is a limit of 9 projects per category per school. During the judging, each project must be represented by 1 or 2 students whose names appear on the project.

The Math Fair Committee and/or Judges reserve the right to re-categorize entries. They also reserve the right to limit or eliminate the awards presented in a given category, based on quality or quantity of projects submitted.

Some examples of ideas which can be explored include:

- * Original games, puzzles, geometric explorations
- * Experiments in estimation, numeration, measurement, and problem-solving
- * Applications of mathematics in navigation, astronomy, economics, photography, music, hobbies, etc.
- * Concrete or visual models
- * Analysis, Trigonometry, Topology, . . .
- * Statistics and Probability

There are many more original ideas that may be used. Be as creative as you wish.

Judging will be based upon the following criteria:

A. Written documentation which must include:

1. Origin of idea
2. An outline of the development of the project
3. Discussion of mathematical concepts investigated
4. References used including names of resource people

B. Oral presentation which must include:

1. Clear and well organized discussion of mathematical concept presented
2. Response to evaluator's questions

C. Development and demonstration of mathematical concepts in an effective manner

D. Investigations which extend beyond the student's everyday classroom investigations

E. Student creativity

F. Organization of ideas, thoroughness, and clarity

G. Appearance

Project Rating Scale: 0=Below Average, 1=Average, 2=Above Average, 3=Outstanding

Maximum size of exhibit:

- A. One (1) meter in width (side to side)
- B. One (1) meter in depth (front to back)
- C. One and a quarter (1 ¼) meters in height

All projects must be displayed on a project board. All measurements will be made at the widest points.

Projects that fail to meet these requirements will not be judged. Projects must be brought to the math fair registration desk between 10:00 a.m. and 10:30 a.m. Students must be present when judging begins at 10:30 a.m. and must be available to discuss their project. No adults (other than the judges) may be present during the judging. Activities will be provided for students during the judging.

Each project must be labeled with a 3 x 5 index card with the following information:

- A. Name of person(s) or class
- B. Grade level
- C. Teacher's name
- D. School and school system

Any special equipment such as a computer, printer, extension cord, power strip, etc. must be supplied by the presenter. There will be an awards ceremony immediately following the completion of the judging.

MATH FAIR REGISTRATION FORM

All entries must be postmarked by March 9, 2009 by using the registration form below. Please duplicate this form for each project as needed. **Absolutely NO exceptions or substitutions will be permitted this year, and no late registrations will be accepted.**

Return this form to: Cindy Robinson

William Lenoir Middle School
332 Greenhaven Drive NW
Lenoir, NC 28645
Phone: 828-266-3169 (Cell)
E-Mail: crobinson@caa.k12.nc.us

School Name: _____ School Phone # : _____

Teacher's Name: _____ Email Address: _____

Principal's Name: _____ Email Address: _____

Student's Name: _____

Parent's Name: _____

Parent's Phone #: _____ Parent's Email Address: _____

Please check the category of the project to be entered:

Grades K-2 Grades 6-8
 Grades 3-5 Grades 9-12

Will your project require electricity? Yes No

There will be a \$7.00 nonrefundable registration fee for each student entering a project. **ATTENTION:** A mid-morning snack will be served to the participants, but lunch will not be provided. After the student has been interviewed by the judges, he/she will be released to his/her parent or teacher for lunch. However, projects cannot be removed until after the Awards Ceremony.

_____ # of students attending at \$7.00 each = \$ _____

(Checks made payable to NCCTM Western Region Math Fair must be enclosed with this form.)

Bring a student self-addressed, stamped, legal-size envelope to the fair if you want the judges comments sent to you after the math fair. Your child will be given a project number when he/she comes to the competition, please be sure to write this number on the back of the envelope.