Saturday, February 21, 2015

The 5th and 6th Grade
PROBLEM SOLVING TOURNAMENT
Sponsored by the
GREATER CLEVELAND COUNCIL OF TEACHERS OF MATHEMATICS
www.mygcctmonline.org

December 2015

Dear Educator,

The Greater Cleveland Council of Teachers of Mathematics is pleased to invite you and your 5th or 6th-grade students to participate in the 34th annual Problem Solving Tournament.

The purposes of this tournament are to:

*Promote enthusiasm for mathematics among students in the fifth and sixth grades
*Recognize students for their interest, perseverance, and talent in mathematics and problem solving
*Challenge these students in an energizing and competitive setting
*Celebrate community-wide the achievements of these young mathematicians

This year’s tournament will be held on Saturday, February 21, at 12 sites located throughout the Greater Cleveland area. We appreciate the generous commitment of our teacher hosts and their system administrators, for providing facilities for this tournament.

The Tournament problems support and extend Ohio’s Academic Content and Common Core Standards in Mathematics. Preparation for the Tournament provides excellent practice and enrichment for state assessments. The application of skills required in the Tournament can assist students in reaching Accelerated or Advanced Levels of the Performance Index and enhance your Value Added score on your school’s Report Card.

The best preparation for you and your students is to practice problems from previous tournaments, which are distributed yearly at each tournament site. Some problems from past tournaments are available on our website. This registration packet may be viewed and downloaded at the GCCTM website: www.mygcctmonline.org.

Note to HOST SITE COORDINATORS:

GCCTM will pay the registration fees for up to four of your teams. However, to reserve enough space, you must register all of your teams on the Registration Form / Invoice, and send it in ASAP.
REGISTRATION COORDINATORS: Kristen McGinness and Sara Good
E-mail: kristen.mcginness@st-gabrielschool.org
goods@parmacityschools.org
Voice mail: 216-798-6651

TEAM ALLOWANCE & FEES: The number of teams that a school may enter per grade level:

<table>
<thead>
<tr>
<th># of Students per grade level</th>
<th>Maximum number of 4-member teams per grade level</th>
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</thead>
<tbody>
<tr>
<td>1 – 25</td>
<td>1</td>
</tr>
<tr>
<td>26 – 50</td>
<td>2</td>
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<tr>
<td>51 – 75</td>
<td>3</td>
</tr>
<tr>
<td>76 – 100</td>
<td>4</td>
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<tr>
<td>101 or more</td>
<td>5, and so on...</td>
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</tbody>
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A fee of $20 is charged for each team entering the tournament. Because of the format of the tournament, teams of less than four members will not be registered. Each team will consist of exactly four fifth-graders, or exactly four sixth-graders. No team will register students from more than one grade level.

Because space is limited at each tournament site, registrations will be accepted until January 9th, or until all available space is filled, whichever comes first. Register online here, or go to GCCTM’s Contests page at http://mygcctmonline.org/contests.php.

SUPERVISION: Each school must send at least one faculty member to help supervise, and facilitate the tournament.

MATERIALS: Each student should have sharpened pencils, a calculator, a protractor (no geometry templates), and a ruler (metric/customary combination). Other materials will be supplied.

TIME SCHEDULE: We try to adhere as closely as possible to the schedule below at all sites. Special conditions may cause times to vary.

- 8:30 a.m. - Registration (name tags, table assignments, etc.)
- 8:50 - Welcome and instructions
- 9:00 - The four tournament events
- 10:45 - Refreshments
- 11:15 - Awards Ceremony

(Encourage parents and other family members to be present for the awards ceremony.)

EVENTS: The items used in this tournament will consist of challenging problems that reflect the Standards of Ohio, and of the National Council of Teachers of Mathematics. The problems will be prepared by a committee of GCCTM members. This group or its representatives will act as arbiter in all questions regarding the scoring of this tournament.
TOURNAMENT PROCEDURES:
Each team will compete in four events which make up the tournament. Calculators are permitted throughout the tournament except for Event II. *Note below change to Event II from last year.

The times given are the approximate total working times for each event.

I. In the first event, the team members will work together to solve two rounds of 4 problems each. Each problem will be worth ten points. (~ 16 minutes)

II. *The second event will consist of 10 mental computation problems presented orally. Students will work individually during this event. Calculators are not used during this event. Each student’s individual score will contribute to her/his team score. (~10 minutes)

III. The third event will be a team construction activity. Each team will read and follow a set of written directions to construct a picture on 8 1/2” x 11” paper. This event will require application of measurement, geometry, and number sense. Each student should bring a ruler (metric/customary combination) and a protractor (no geometry templates). Each member may work on her own practice paper, but only ONE final entry by the entire team will be submitted and scored. (~15 minutes)

IV. The fourth event will consist of mixed-application problems. The team members will work together during this event. (~15 minutes)

GUESTS: Parents and guests are encouraged to support their students by attending the Awards Ceremony following the competition. Please communicate this clearly to parents. Guests are not permitted in the competition or grading rooms during the tournament.

AWARDS: Each student on a team entered in the tournament will receive an award. Each team will be called to the front of the assembled participants to receive their awards. Members of the teams scoring in the top 20% of the competition in each grade level will receive trophies. The next 40% of the teams in each grade level will receive blue ribbons imprinted CHAMPION. Members of the teams in the next 40% of the ranking by scores will be awarded red ribbons imprinted SPECIAL AWARD.

PUBLICITY: Each school will handle its own publicity regarding its students’ participation in the tournament. We REQUIRE one limitation. This tournament is in NO way planned to be a comparison of the participating schools or school systems. Therefore, any publicity released by any school will neither contain nor imply such comparison. At the Tournament, students are not to wear any clothing, etc. that advertises their school name, or school mascot. Schools which cannot comply with this condition are asked not to participate in the GCCTM Problem Solving Tournament.
5th/6th TOURNAMENT SITES 2015

Brecksville-Broadview Heights Middle School
6376 Mill Rd.
Broadview Hts., OH  44147

J. A. Garfield Elementary
8233 Park Ave.
Garrettsville, OH  44123

John Carroll University- Dolan Science Center
20700 North Park Blvd.
University Hts., 44118

Kidder Elementary
3650 Grafton Rd
Brunswick, OH  44212

Lake Ridge Academy
37501 Center Ridge Rd.
North Ridgeville, 44039

Lakewood Catholic Academy
14808 Lake Rd.
Lakewood, 44107

Mayfield Middle School
1123 SOM Center Rd.
Mayfield Hts., 44124

Messiah Lutheran School
4401 W. 215th St.
Fairview Park, 44126

Midview East Intermediate School
13070 Durkee Rd.
Grafton, 44044

St. Gabriel School
9935 Johnnycake Ridge Rd.
Concord, OH  44060

Stanton Middle School
1175 Hudson Rd.
Kent, 44240

University School
20701 Brantley Rd
Shaker Hts., 44122