

The Rockdale Magnet Math Team
State Champions 2004 and 2005

Rockdale Magnet School for Science and Technology
1174 Bulldog Circle, Conyers, Georgia 30012



Sam Brotherton, Math Team Co-Captain
Jacob Kovac, Math Team Co-Captain
Dr. Chuck Garner, Math Team Sponsor

Mrs. Mary Ann Suddeth, School Director
Tel: 770 483 8737 Fax: 770 483 7379

October 30, 2007

Dear Math Team Sponsor:

The Rockdale Magnet Math Team invites your school to participate in the Third Annual Rockdale Mathematics Competition on Saturday, January 19, 2008 at the Rockdale County High School campus in Conyers, Georgia.

We offer three levels of competition: Middle School (MS), Junior Varsity (JV), and Varsity (V).

- The Middle School level is for any student in 6th through 8th grades;
- The JV level is for any 9th through 12th grade student who *has not* begun or completed Precalculus or the equivalent; and
- The Varsity level is for any 9th through 12th grade student who *has* begun or completed Precalculus or the equivalent.

A team from your school consists of six students in the same level. You are invited to register up to three teams (18 students) per level.

To emphasize team collaboration, we have eliminated the traditional individual multiple-choice test. There are four rounds of competition, three of which are team oriented.

The Team Round – The six-student team will be given a single sheet of 8 problems to solve within 20 minutes. The team will work together to solve the problems and the correct answers will be written on a separate answer sheet; correct answers earn 5 points each (40 points total).

The Relay Round – The six-student team will divide into two groups of three. Each group of three will participate in two relay rounds simultaneously. In this round, the first person's answer is passed to the second person, where the second person must use that answer to solve his/her problem; the second person's answer is then passed to the third person, where the third person must use that answer to solve his/her problem. The third person then turns in the final answer; this is the only answer that is graded. This is also the only round with a time interval: Correct final answers within 3 minutes earn 5 points, correct answers within 5 minutes earn 2 points (20 points total).

The Power Round – The six-student team will be given a single multi-part problem for which all work must shown; answers must be justified for the JV and Varsity level Power Rounds. The team is given 35 minutes to write solutions; 40 points are possible and partial credit is awarded.

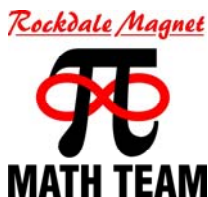
The Individual Round – Each person answers 8 problems two-at-a-time with a time limit of 8 minutes per pair of problems. Each correct answer earns 1 point, and, unlike traditional ciphering, there are no additional points for answering more quickly (48 points total).

As always, there are *NO* calculators allowed on any part of the tournament.

Fewer than six students may form a team, but they would compete at a disadvantage. For instance, a five-student team may only have three involved in the relay and (obviously) only five participating in the individual round. This implies a possible 18 points not available to a five-person team.

The Rockdale Magnet Math Team
State Champions 2004 and 2005

Rockdale Magnet School for Science and Technology
1174 Bulldog Circle, Conyers, Georgia 30012



Sam Brotherton, Math Team Co-Captain
Jacob Kovac, Math Team Co-Captain
Dr. Chuck Garner, Math Team Sponsor

Mrs. Mary Ann Suddeth, School Director
Tel: 770 483 8737 Fax: 770 483 7379

Team awards are based on the sum of all points earned on all four rounds; ties in team scores are broken by highest Team Round score, then Relay score, then Power Round score. The top 3 teams in MS, JV, and V in each of the following classifications will be recognized: A/AA (combined), 3A, 4A, 5A, and GISA.

Individual awards are based solely on the Individual Round. For the purposes of individual awards, each individual question is weighted, with problem 1 (the easiest) being the least valuable, increasing in value to problem 8 (the hardest). These values are not included in team scores. The top 15 individuals in each level (MS, JV, V) will be recognized. In the event of a tie among the top 15, a Tiebreaker Round will be held, in the same format as the Individual Round, until all ties are broken.

The tentative schedule for January 19, 2008 is below.

8:30 – 9:00	Registration		
	<i>Middle School</i>	<i>Junior Varsity</i>	<i>Varsity</i>
9:10 – 9:55	Team and Relay	Individual	Power
10:05 – 10:50	Individual	Power	Team and Relay
10:55 – 11:25	Break		
11:30 – 12:15	Power	Team and Relay	Individual
12:15 – 2:00	Lunch (on your own)		
2:00 – 2:30	Individual Tiebreakers		
2:30 – 3:00	Awards		

A registration form is included with this letter. We hope you will find this Competition a rewarding mathematical experience for your students, and we look forward to seeing you on January 19th.

Regards,

The Rockdale Magnet Math Team