

New Jersey



Spirit of Math.®

"To promote cooperation, inspire confidence and release the genius in every child."

REGISTRATION PACKAGE

REGISTRATION: Please contact the office at edison@spiritofmath.com or 732-983-9960 for registration information.

Registrations continue during class times beginning September 1, 2009 on Tuesday evenings from 4:00-8:00.

New students require an admittance interview prior to registration; please contact the office to schedule an appointment. Please have your child accompany you at this time. It is mandatory that a copy of the student's most recent report card be brought to the interview.

PLEASE BRING THE FOLLOWING WITH YOU WHEN YOU REGISTER:

- Completed registration form (enclosed).
- Non-refundable registration fee of \$25 per family dated the day of registration.
- Post-dated checks for August 24th, 2009, October 26th, 2009, December 28th, 2009 and March 22nd, 2009, 2010. Make checks payable to *Spirit of Math*
- A copy of the most recent report card.

The entire registration package may be downloaded from our website (www.spiritofmath.com) for your convenience.

PHONE: 732-983-9960



Dear Students and Parents,

The entire staff at Spirit of Math would like to welcome you to our program. We hope that our efforts to maintain high standards will help to make your time spent with Spirit of Math valuable. The academic successes that have resulted with many Spirit of Math students are largely due to both the strong efforts of students and to the positive and consistent assistance given at home. Parents, we hope to work with you as a team, to release the genius in your child.

Students, as this is your first year with us, we hope that you will enjoy the opportunity to meet others, that you will appreciate the challenge you will be getting, and that you will achieve the success that you are anticipating. We trust that the coming year will be one of significant progress in your mathematical aptitude.

Many former students have shared testimonies with us stating that the challenges here at SMS, and the holistic approach to education, has enabled them to achieve personal goals beyond what they believed they could otherwise have accomplished - we hope this will be your experience as well.

We thank you for helping Spirit of Math establish itself as a standard of excellence in mathematics in the United States.

*Kim Langen
CEO and Co-Founder, Spirit of Math*

GRADE 1

Skills:

- Ability to read at a Grade Two level minimum (for problem-solving purposes)
- Ability to copy text from blackboard for simple note-taking
- Ability to work independently for a minimum of 15 minutes
- Ability to work co-operatively in groups

Knowledge:

- Basic geometric shapes: square, rectangle, circle, triangle
- Number facts (addition and subtraction) to 10, with understanding of extensions to 100

GRADE 2

Skills:

- Ability to read with understanding at a Grade Four level minimum
- Ability to make notes by copying text from blackboard or through oral dictation
- Ability to follow directions independently from written instructions
- Ability to work independently for a minimum of 30 minutes
- Ability to work co-operatively in groups

Knowledge:

- Multiplication facts to 6
- Short multiplication of two digits by one digit
- Addition with carrying – to three digits
- Subtraction with borrowing – to three digits
- Problem solving involving two operations

GRADE 3

Skills:

- Ability to read/write at a Grade Six level minimum
- Ability to copy text from blackboard or through oral dictation
- Ability to follow directions from written text or oral instructions
- Ability to work independently for a minimum of 30 minutes
- Ability to work co-operatively in groups, taking a leadership position

Knowledge:

- Short multiplication and division operations to 9
- Understanding of all 4 operations (addition, subtraction, multiplication, division)
- Problem solving to Grade Six level
- Relocation property
- Signed numbers (addition, subtraction, multiplication and division)

	1 st Grade	2 nd Grade	3 rd Grade	4 th Grade	5 th Grade	6 th Grade
Drills	<ul style="list-style-type: none"> • Regrouping • Short addition • Short multiplication • Integer addition • Short division • Super Speed addition 	<ul style="list-style-type: none"> • Short addition • Short multiplication • Integer addition • Short division • Super Speed addition • Long multiplication 	<ul style="list-style-type: none"> • Super Speed addition • Short addition • Short multiplication • Integer addition • Short division • Fractions to decimals • Long multiplication • Long division • Perfect squares 	<ul style="list-style-type: none"> • Super Speed addition • Short multiplication • Integer addition • Short division • Long multiplication • Long division • Perfect squares 	<ul style="list-style-type: none"> • Short multiplication • Short division • Long multiplication • Long division 	<ul style="list-style-type: none"> • Long multiplication • Long division • Perfect squares to 60^2 • Decimal equivalents
Problem Solving	<ul style="list-style-type: none"> • Tangrams • All But • Cuts and Pieces • Counting and numbering • Venn diagrams • Shapes • Presentation techniques • Date Problems • Pathways 	<ul style="list-style-type: none"> • Consecutive pages • Palindromes • Date Problems • Heads and legs • Venn diagrams • Sum of a series • Regions in a circle • Ratio • Probability • Presentation techniques • Pathways 	<ul style="list-style-type: none"> • Pascal sequence • Fibonacci sequence • All But, Date Problems • Cuts and Pieces • Venn diagrams • Average • Presentation techniques 	<ul style="list-style-type: none"> • Consecutive numbers • Probability • Handshakes • Venn diagrams • Heads and Legs • Arrangements of letters • Pathways • Ratio • LCM • Regions in circles 	<ul style="list-style-type: none"> • Problems are integrated in the Number Theory section of the course • Independent assignments are discussed in class 	<ul style="list-style-type: none"> • Independent assignments are discussed in class
Number Theory	<ul style="list-style-type: none"> • Addition regrouping • Alphametrics • Integers – addition and subtraction • Multiplication • Magic Squares • Fractions 	<ul style="list-style-type: none"> • Regrouping • Addition of integers • Prime numbers • Prime factors • Fractions with number lines 	<ul style="list-style-type: none"> • Regrouping • Addition of integers • Relocation with division and multiplication • Perfect squares • Prime numbers, factoring • Fractions 	<ul style="list-style-type: none"> • Relocation with addition, sub't'n, mult'n and division • Prime numbers and factoring • Tests of divisibility • Least Common Multiple • Geometry 	<ul style="list-style-type: none"> • Relocation Property • Signed Numbers • Order of Operations • Factors, Multiples and Primes • Number Sets 	<ul style="list-style-type: none"> • Rationals • Ratio, rate, percent and proportions • Geometry
Independent Assignments	<ul style="list-style-type: none"> • Assignment of the Year • Wee Wizards • Problem Poster Project • Mighty Mathematicians 	<ul style="list-style-type: none"> • Assignment of the Year • Black and Orange Gumdrops • Wise Wizards 1 • January Thaw • Problem Poster Project • Mighty Mathematicians 	<ul style="list-style-type: none"> • Assignment of the Year • Joanie and Jetsie • Wise Wizards 2 • Little Spirit • Problem Poster Project • Famous Mathematicians 	<ul style="list-style-type: none"> • Grade Four Problem Sets A and B • These Will Haunt You • Assignment of the Year • Wise Wizards 3 • Problem Poster Project • Famous Mathematicians 	<ul style="list-style-type: none"> • CNML competitions • Mastermind A/B • 50 Mix • Assignment of the Year 	<ul style="list-style-type: none"> • Grade 6 Problems • Brain Bogglers • Mind Benders

CURRICULUM OVERVIEW GRADES 7-11

	7 th Grade	8 th Grade	9 th Grade	10 th Grade	11 th Grade
Drills	<ul style="list-style-type: none"> • Perfect squares • Decimal expansions 	<ul style="list-style-type: none"> • Percent calculations 		<ul style="list-style-type: none"> • Radians and degrees 	
Core	<ul style="list-style-type: none"> • Identifying and Counting Shapes • Arrangements of Letters in a Word • Pathways with Factorials • Pascal's Triangle • Patterns • Problem Solving with Prime Factoring • Measurement • Number Bases • Venn diagrams 	<ul style="list-style-type: none"> • Radicals • Algebra (including equations, inequations, functions and binomial expansion) • Linear relations including the Euler Line • Equations and inequations • Exponents & exponentials 	<ul style="list-style-type: none"> • Factoring polynomials • Graphing techniques • Solving systems of equations • Absolute value 	<ul style="list-style-type: none"> • Trigonometry • Logarithms • Complex numbers • Sketching curves • Matrices • Conics 	Calculus: <ul style="list-style-type: none"> • Limits • Derivative Rules • 2nd and 3rd degree derivatives • Implicit differentiation • Partial differentiation • Derivatives of logarithmic, exponential and trigonometric functions • Maximum-Minimum problems • Rates of Change Problems • Curve Sketching • Integrals and applications
Independent Assignments	<ul style="list-style-type: none"> • Math Challengers 	<ul style="list-style-type: none"> • Jet Sets 	<ul style="list-style-type: none"> • Cerebral Contortions I • Big 100 	<ul style="list-style-type: none"> • Cerebral Contortions 2 • Alphametrics • Math Challengers 	<ul style="list-style-type: none"> • Geometry Mania • Variety of competition questions

STUDENTS

1. Notes

- Spirit of Math does not use textbooks. This means that when you study for tests and exams, the only thing you will have to refer to is your own notes – so take the time this year to take careful notes.
- Date each page.
- Include proper titles that are underlined.
- Make your notes clear and readable.
- If you are sick, make sure that you have copied the notes from someone else, and check in with your teacher if you are in doubt about something.
- Write all your notes in pencil.

2. Homework

- Complete all your homework from week to week. Not completing homework means that you won't be able to keep up with the class.
- Serious students do their homework. If you do not consistently do your homework, you will be asked to leave, in order to provide the space for another student to take the class.
- Students will be put on probation if their homework isn't completed 3 times.
- If you have tried the homework, but can't do it, you need to show your work (whether correct or incorrect), or it will be considered not done.
- All major assignments must be handed in. Any assignment handed in later than one week late will be given a zero mark.

3. Co-Operative Working

- Work within your designated group during class time.
- Share your ideas with the class and listen to others.
- Work with your parents at home.

4. Study for Tests

- Try to do your best.
- Review all your notes before the test.
- If you are going to be absent from a test, make arrangements with your teacher to do the test at another time; before the following week when the test will be taken up.

PARENTS (GRADES 1-8)

1. A parent's involvement can add so much to their child's education and can be a valuable asset to their child's learning. You are welcome to observe the classes by sitting at the back of the class. This allows you to take your own notes and watch your child at work. Your presence also contributes positively to the ethos of the class.
2. We have found that those children who get extra help at home succeed. We encourage you to help your child at home.
3. Help keep your child's notebook tidy.
4. Do not give your child only the answer – give them help with the process and let them figure out the answer.



NEW JERSEY

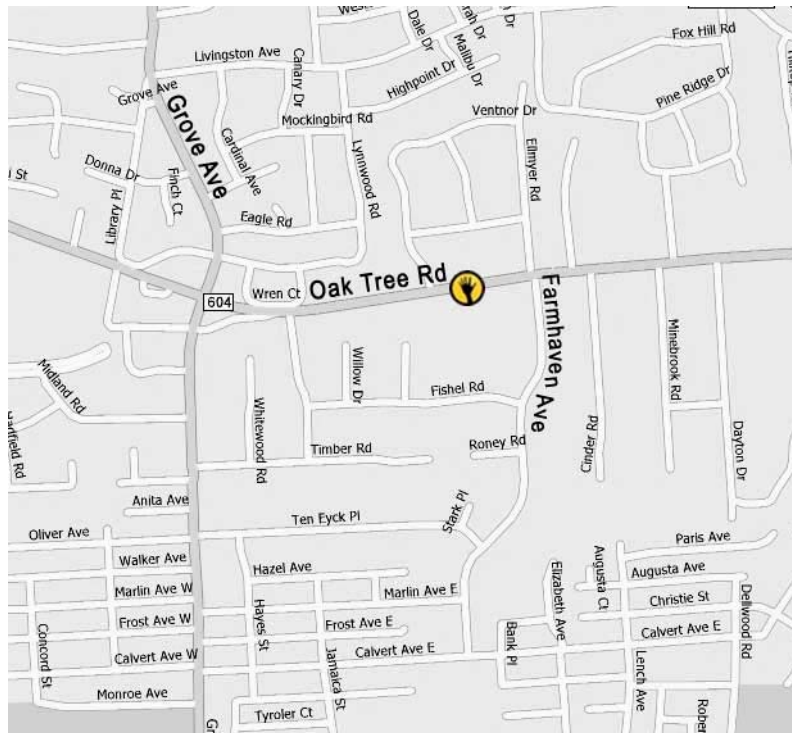
CHECK DATES

Please make checks payable to **Spirit of Math** and include student's name and class in memo portion of cheque.
There is a \$25/family fee due at time of registration.

Payment Date	Amount	Sibling Amount (20% discount) Applies to youngest sibling(s)	Number of Classes
August 24, 2009	\$360	\$288	August 31 – October 23, 2009 (8 weeks)
October 26, 2009	\$360	\$288	October 26 – December 18 (8 weeks)
December 28, 2009	\$450	\$360	January 4 – March 12 (10 weeks)
March 22, 2010	\$585	\$468	March 29 – June 25 (13 weeks)

NEW JERSEY CAMPUS – JEWISH COMMUNITY CENTER OF MIDDLESEX, 1775 OAK TREE ROAD							
Monday		Tuesday		Wednesday		Thursday	
		4:30 – 6:00	6:15 – 7:45				
		Grade 1	Grade 2				
		Grade 3	Grade 5				

Jewish Community Center of Middlesex, 1775 Oak Tree Road



CLASS CONFIRMATION

The following students have been registered for the stated classes.
This is your confirmation that they have been registered.

STUDENT NAME	CLASS	TIME	STARTING DATE	LOCATION	SMS INITIALS

The first day of class is Tuesday, September 1, 2009.

Please remember to bring the following with you:

- Sharpened pencils
- Erasers
- Red and blue pens
- Lined, three-ringed paper
- Straight edge (e.g. ruler)
- Calculator – only for grades 6 and above