Preparing Students for NJ ASK 3 and 4

Standard-Based Mathematics Workshops for Grade K-4 Teachers

New Jersey Mathematics Coalition and Rutgers Center for Mathematics, Science, and Computer Education

New workshops added — including special ed!
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All workshops take place at Rutgers University-Piscataway unless noted:
* Rutgers-Camden location ° Rutgers-Newark location ‡ County College of Morris location

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Would you like to:
➤ Better prepare your students for NJ’s statewide assessments?
➤ Engage your students and get them excited about the lessons that you teach?
➤ Incorporate standards-based hands-on activities that motivate your students?
➤ Relate what you are doing in the classroom to “real world” applications?

THE RUTGERS CENTER FOR MATHEMATICS, SCIENCE, AND COMPUTER EDUCATION (NJ DOE provider #2) is offering a broad range of highly interactive one-day professional development workshops that are applicable to all curricula taught by grades K-4 teachers of mathematics. All workshops are based on the NJ Core Curriculum Content Standards in mathematics as they are reflected in the NJ ASK. All of these workshops will help you better prepare students for the NJ ASK and provide the resources and knowledge that you need to generate new and exciting standards-based lessons.

All workshops are full-day workshops at which participants will earn six (6) professional development hours. All workshops will take place at Rutgers University–New Brunswick (unless otherwise noted). Participants may attend single or multiple workshops in any order. Discounts are available for multiple registrations on a single purchase order.

Although some workshops address overlapping issues, teachers who attend multiple workshops will benefit from experiencing the different approaches the workshop leaders have to helping students meet the challenges of the ASK. Our instructors are among the most experienced and respected workshop leaders in the state. The workshop topics are based on feedback and recommendations from NJ teachers and administrators.

Attendees will leave these workshops with valuable tools to motivate your students, stimulate their curiosity, and promote a more positive attitude towards mathematics.

Joseph G. Rosenstein, Director
Professor of Mathematics, Rutgers University
NJ ASK 3-4 Standards-Based Mathematics Workshop Series: Four Workshops that Together Address Every Topic on the NJ ASK 3 and 4

- Are you comfortable teaching all of the mathematics topics reflected on the NJ ASK 3 and 4?
- Does it seem like there are always those select students that just never “get it” while you teach your daily lessons?
- Are you looking for new ways to get your students excited about mathematics and actually admit they are having fun while learning?

If you answered yes to any or all of the above questions, this workshop series is for you! Come and experience the most comprehensive set of mathematics workshops for grade 3 and 4 teachers available in NJ. The four workshops described below present key instructional activities that address all of the NJ mathematics standards and assessment strands. Teachers who engage students in such activities, and the mathematics they involve, will automatically be preparing students for the kinds of questions that appear on the state tests. To underscore this point, sample assessment questions are explicitly discussed as they relate to the workshop activities. (We do not, however, advocate “teaching to the test”.) Problem-solving and literature connections are also embedded in all workshops. The four workshops may be taken in any order.

Each of the four workshops focuses on one or two of New Jersey’s mathematics standards; together, the four workshops address all of the mathematics standards and assessment strands.

Participants will return to school with a large packet of materials that they can immediately implement into their classrooms in addition to the instructional strategies that will enable children to learn the mathematics in the workshop. All workshop activities are easily incorporated into existing curricula.

WHO SHOULD ATTEND:
The workshops are designed for

- 3rd & 4th grade teachers of mathematics
- Mathematics resource teachers
- Mathematics specialists
- Mathematics curriculum leaders
- Mathematics coaches
- Elementary special education teachers

While individual teachers will benefit from these workshops, groups of teachers from a school will benefit much more because they will be able to work together in the workshop to improve their understanding of the standards and, afterwards, as a professional community to implement workshop activities in their classrooms. Discounts are available for multiple registrations on a single purchase order. See Registration Information for more details.

*IMPORTANT NOTE – All four (4) of the workshops that follow can be scheduled in your district – please call Debby Toti at (732)445-2825 to arrange and get details on special pricing.*
Making Sense of Data and Whole Numbers
Have you run out of new and exciting ways to teach data? Have fun collecting data and making graphs. You can even make a glyph! Explore activities that will help you and your students construct strategies for gathering, presenting, and interpreting all different types of data. Learn how to help your students develop a good sense of numbers, and how they are used in real life. Participants will experience games that will generate excitement and teach them how to help their students to understand and love math!

Rutgers, Piscataway, NJ
December 4, 2006 Code: A120406
January 3, 2007 Code: A010307
February 5, 2007 Code: A020507
May 7, 2007 Code: A050707

Rutgers, Newark, NJ
December 12, 2006 Code: A121206
County College of Morris, Randolph, NJ
January 17, 2007 Code: A011707

Rutgers, Camden, NJ
November 15, 2006 Code: A111506

Learning Can Be Fun Using Patterns, Algebra and Geometry
Are problem-solving activities a problem for you? Do the words tessellations and transformations sound Greek to you? Help your students to develop algebraic thinking skills through the use of exciting fun-filled activities and games that incorporate a variety of problem-solving strategies. Participants will learn new ways to introduce geometry into their lessons so that even the most intimidated students will leave wanting more!

Rutgers, Piscataway, NJ
December 6, 2006 Code: B120606
January 4, 2007 Code: B010407
February 6, 2007 Code: B020607
May 8, 2007 Code: B050807

Rutgers, Newark, NJ
December 13, 2006 Code: B121306
County College of Morris, Randolph, NJ
January 18, 2007 Code: B011807

Rutgers, Camden, NJ
November 16, 2006 Code: B111606

“Thought Provoking”
“Excellent activities and wonderful presenter!”
“Terrific and organized too”
“I was challenged – thanks!”
How Your Students Can Learn to Love Measurement and Fractions

How long? How much? How heavy? How Great! Fractions - such little numbers- such a BIG problem! A variety of activities that will stimulate and motivate your students to learn the roles of estimation, measurement, and fractions in everyday mathematics will be the focus during this must-see session! Come see how measurement and fractions become more interesting (and easy and fun) by exploring standard and non-standard measurement activities and games.

Rutgers, Piscataway, NJ
December 7, 2006 Code: C120706
January 9, 2007 Code: C010907
February 14, 2007 Code: C021407
May 10, 2007 Code: C051007

Rutgers, Newark, NJ
December 14, 2006 Code: C121406

County College of Morris, Randolph, NJ
January 23, 2007 Code: C012307

Rutgers, Camden, NJ
November 27, 2006 Code: C112706

Probability, Discrete Math, and Problem Solving: A Winning Combination

You have 20 students, 3 learning styles, and 4 concepts to teach - how many possible lessons can you create to meet their needs? What is the probability they will all learn? Learn what discrete math is all about and how easily it can be incorporated into all your mathematics lessons. Participants will experience how games, algorithms, problem solving and graphs can be related to real life – therefore teaching students why they need to learn these valuable skills.

Rutgers, Piscataway, NJ
December 8, 2006 Code: D120806
January 10, 2007 Code: D011007
February 15, 2007 Code: D021507
May 11, 2007 Code: D051107

Rutgers, Newark, NJ
December 15, 2006 Code: D121506

County College of Morris, Randolph, NJ
January 24, 2007 Code: D012407

Rutgers, Camden, NJ
November 28, 2006 Code: D112806
Learning Math: Patterns, Functions and Algebra (Annenberg Series)

Date: Tuesday, September 12, 2006 (See Special Note Below)    Code: 091206AN
Time: 8:30 a.m. - 3:30 p.m.
Presenter: Roberta Rim
Audience: Grade K-8 teachers

**Special Note:** This course is a 5 part series of workshops beginning with a full day workshop on September 12, 2006. Other course days are September 26th (4-6:30), October 17th (4-6:30), November 14th (4-6:30) and November 28th (4-6:30). In addition, part of the course is conducted online. Special fee for all five (5) days: $500.

From the award-winning Annenberg/CPB Foundation, this course is organized around the content standards. It explores the “big ideas” in algebraic thinking, such as finding, describing and using patterns; using functions to make predictions; understanding linearity and proportional reasoning; understanding non-linear functions; and understanding and exploring algebraic structure. Three (3) college credits are available for this course.

Differentiated Instruction in the Elementary Mathematics Classroom

Date: Thursday, September 28, 2006  Code: 092806
Time: 9:00 a.m. – 3:00 p.m.
Presenter: Roberta Rim
Audience: Grade K-6 teachers and paraprofessionals, special education staff, Title I staff members, math supervisors, and administrators

This workshop is designed to provide staff with the tools to create a learning environment where students are actively involved, solving meaningful problems, and working together to acquire knowledge. Practical strategies, hands-on activities, and the use of a variety of manipulatives will engage all students and meet the diverse academic needs of students in a heterogeneous classroom. Emphasis is on tiered lessons as a strategy to differentiate instruction.
Connect Literature and Math for Success on NJ ASK Grades 3 & 4
Workshops I & II

Dates: Thursday, September 28, 2006 (Workshop I)  Code: ASK 092806
       Wednesday, October 4, 2006 (Workshop II)  Code: ASK 100406
Time:  8:30 a.m. – 3:00 p.m.
Presenter: Patricia Cox
Audience: Grade 3 and 4 teachers of mathematics, elementary special education teachers, math supervisors

Make your math classroom come alive through the use of popular children’s books! Many of today’s popular children’s books incorporate mathematical concepts that can help introduce and reinforce math lessons in your classroom. Both of these highly interactive sessions will use literature as a springboard to help teachers implement problem-solving, discovery, and hands-on activities. Topics addressed include geometry, spatial sense, algebraic thinking, probability, computation, and fractions. Different books will be addressed in each workshop. They may be taken together or independently. Participants will leave with practical ideas that maximize student interest, raise self-esteem, and improve retention and understanding. Techniques to strengthen responses to open-ended questions will also be discussed. *Note – books not included in workshop fee, Workshop I and II may be taken independently.

Prepare Your K-2 Students Now for the NJ ASK

Date: Tuesday, October 10, 2006  Code: ASK 101006
Time: 8:30 a.m. – 3:00 p.m.
Presenter: Karin Rupp
Audience: Grade K-2 teachers of mathematics

Does it seem like all the lessons that should be covered can’t all be done in one year? Learn how to connect your ordinary classroom activities to math concepts which your students will be required to know in the future for the NJ ASK. This workshop will include grade-level appropriate lessons using manipulatives, popular children’s books, the number line, open-ended questions and also the calculator to reinforce concepts.

Making Math Manipulatives

Date: Tuesday, October 24, 2006  Code: ASK 102406
Time: 8:30 a.m. – 3:00 p.m.
Presenter: Nicole Pepe
Audience: Grade K-2 teachers

Are you looking for creative ways to make your mathematics classroom come alive? This workshop encompasses all of the New Jersey Mathematics Standards into one. Teachers in the primary grades can get started enhancing the current curriculum with fun and effective hands-on activities and learning
centers that align with the state standards. Teachers will have the opportunity to explore, develop, and take home math game manipulatives that can be used immediately in the classroom. Standards-based, ready-made math fun to go!

**Integrating Math Games into the Classroom**

*Date:* Thursday, October 26, 2006  *Code:* GEPA 102606  
*Time:* 8:30 a.m. – 3:00 p.m.  
*Presenters:* Jackie Garatva, Jackie Papp  
*Audience:* Grade 4-8 teachers of mathematics, special education and basic skills teachers  
grade 4-12, math supervisors

As tests get tougher and lessons more involved, keeping students motivated and engaged has become more of a challenge in today’s academic environment. This workshop offers a wide variety of ideas that will help teachers enhance their lessons through the use of games not found in today’s traditional textbooks. In addition to reinforcing daily lessons, some of the games can also be used for alternate assessment. Topics covered include place value, fractions, decimals, geometric shapes, and coordinate graphing.
Get Your Students to Understand the Big Picture: Learn New Ways to Make Sense of NJ ASK 3 & 4

Date: Thursday, November 30, 2006  Code: ASK 113006
Time: 8:30 a.m. – 3:00 p.m.
Presenter: Karin Rupp
Audience: This workshop is recommended for grade 3-4 teachers of mathematics

Students solve a number of different word problems in their math classes. These are often stand-alone exercises. This workshop provides a variety of examples and representations from different content standards — though they actually examples of the same concepts. Workshop activities will include the use of manipulatives, number line, popular children’s books, open-ended questions as well as the calculator to reinforce required math concepts.

SMARTBoard in the Math Class

Date: Friday, December 1, 2006  Code: 120106
Time: 9:00 a.m. – 3:00 p.m.  Special Fee: $160
Presenter: Debbie Gries
Audience: Grade 4-8 teachers

In this workshop, participants will explore the many ways teachers can use the SMARTBoard to enliven their math lessons and foster student interaction and participation during their math classes. Participants will also learn how to use math-related tools in SMARTNotebook.
Understanding the Basics First – How to Prepare Your Students for More Advanced Concepts – Workshop I and II

Dates: Tuesday, December 5, 2006 (Workshop I) Code: ASK 120506
       Monday, December 11, 2006 (Workshop II) Code: ASK 121106

Time: 8:30 a.m. – 3:00 p.m.

Presenter: Patricia Cox

Audience: Grade 3 to 5 teachers of mathematics, elementary special education teachers

Are some of your students struggling to keep up with the pace in your mathematics classroom? Do they have difficulty following the lessons in their textbooks? If students haven’t mastered the basics, advancing to more complex mathematical concepts becomes a bigger challenge. These workshops start with basic student understanding and encompass activities that ensure students have ready facility for the use of basic facts as needed in school and in everyday life. Topics include mental math and estimation, number sense, teaching computational skills, pattern recognition, and using games to promote retention.

Workshop I specifically covers addition and subtraction of whole numbers.

Workshop II will focus on multiplication and division of whole numbers.

Fractions and decimals using manipulatives and linking them to the symbolic representations will be covered in both workshops.

Higher Order Thinking Through Mathematics

Date: Friday, December 8, 2006 Code: 120806

Time: 9:00 a.m. – 3:00 p.m. Special Fee: $160

Presenter: Regina Marcus

Audience: Grade 3-8 teachers, basic skills, resource room

Participants will use examples of a variety of methods to practice techniques of higher-order thinking. Techniques including trial and error, sketching, finding patterns, making lists, modeling, acting out, estimations, writing equations, and brainstorming will be demonstrated. Bloom’s taxonomy will demonstrate the progressive development of higher thinking skills. Teachers will have the opportunity to investigate various web sites that will allow them to locate activities for use in their classrooms. Various manipulatives will be used to assist the teacher to solve examples.
Getting Ready for NJ ASK 3-4: Use Multi-Tasking to Get It All Done by March

Date: Wednesday, December 13, 2006   Code: ASK 121306
Time: 8:30 a.m. – 3:00 p.m.
Presenter: Paul Lawrence
Audience: Grade 3 and 4 teachers of mathematics, elementary special education teachers

By the time January arrives, many 3rd and 4th grade teachers are faced with the realization that the NJ ASK 3-4 is only about 10 weeks away! Often times many concepts still need to be taught, but the commitment to standards-based, hands-on, discovery-oriented tasks makes the job of getting it all done a little overwhelming. One solution to the problem is to combine tasks together, e.g., provide geometric interpretations to computation skills and infuse lessons with open-ended questions, problem solving, and discovery-based activities while teaching concepts and procedures for addition, subtraction, multiplication, and division. Sets of problems that combine number sense, estimation, problem solving and logic will be presented and distributed so that participants can easily share and implement these ideas in their own schools.

Mathematics Test Prep for the NJ ASK 3 and NJ ASK 4

Date: Tuesday, January 30, 2007   Code: 013007
Time: 9:00 a.m. – 3:00 p.m.
Presenter: Roberta Rim
Audience: Grade 3-4 math teachers and paraprofessionals, special education staff, Title I staff members, math supervisors, and administrators

This workshop is designed to provide staff with the tools to create a learning environment where students are actively involved, solving meaning problems, and working together to acquire knowledge. Practical strategies, hands-on activities, use of a variety of manipulatives, and the use of technology will enhance your instruction in the clusters of the math curriculum to excite your students about learning mathematics and improve standardized test scores.

Using the Internet to Enhance Mathematics Instruction in the Elementary Grades

Date: Wednesday, February 7, 2007   Code: 020707
Time: 9:00 a.m. – 3:00 p.m.
Presenter: Roberta Rim
Audience: Grade K-6 math teachers and paraprofessionals, special education staff, Title I staff members, math supervisors, and administrators

This workshop is designed to provide staff with the multitude of web sites that have virtual manipulatives, interactive math games, skills practice, and tutorials to integrate into your curriculum to better meet the needs of ALL students. Strategies to increase student motivation and participation, improve students’ performance, make learning math exciting and fun, and integrate on-line resources to supplement your textbook will be addressed.
Title: Let’s Read Math!
Date: Monday, February 12, 2007  Code: ASK 021207
Time: 8:30 a.m. – 3:00 p.m.
Presenter: Claire Passantino
Audience: Grades K-4 teachers and elementary special education teachers

The “Let’s Read Math Funbook” has just been released! Combine children’s literature with math activities tied to the standards. Hear about and try math activities related to 16 different books. Receive a list of other books to try on your own, and a copy of the Let’s Read Math Funbook, with punch-out math manipulatives. Find out how to adapt the activities for use at family nights in your school. This session is limited to 40 attendees.

Special Need Students Need Standards-Based Math Instruction Too!
Date: Tuesday, May 1, 2007   Code: GEPA 050107
Time: 8:30 a.m. – 3:00 p.m.
Presenter: Paul Lawrence
Audience: Grade 3-8 teachers of mathematics and grade 3-8 special education teachers

Special education, summer school, after school, and intervention programs often only provide more of the same worksheets and rules as ways to foster understanding and success in mathematics. Learn about discovery-based, hands-on, highly sequenced, alternative strategies that lead to traditional understanding and applications of essential concepts taught in grades 3-8. Focus will be on selected topics from arithmetic operations with whole numbers and fractions.

Title: Let’s Read Math II!
Date: Tuesday, May 15, 2007  Code: ASK 051507
Time: 8:30 a.m. – 3:00 p.m.
Presenter: Claire Passantino
Audience: Grade K-4 teachers and elementary special education teachers

The “Let’s Read Math Funbook 2” is being released this spring – come and be one of the first to experience these new and exciting activities! Combine children’s literature with math activities tied to the standards. Hear about and try math activities related to the 16 books in Funbook 2. Receive a list of other books to try on your own, and a copy of the Let’s Read Math Funbook 2, with punch-out math manipulatives. Find out how to adapt the activities for use at family nights in your school. This session is limited to 40 attendees.
Payment and Registration Information

To encourage implementation at your school, we are offering discounts to schools or districts that send multiple registrations on a single purchase order and to individuals that sign up for four (4) or more workshops. See the pricing schedule below:

- 1-3 Workshop Registrations: $195 each
- 4-9 Workshop Registrations (single individual or group): $175 each (10% discount)
- 10 or more Workshop Registrations (single individual or group): $155 each (20% discount)

Workshop fees include all materials, a continental breakfast and lunch.

Payment may be made by purchase order or check. Purchase orders and/or checks should be made out to: K-4 Workshops – Rutgers, the State University. See address below.

How to Register

NEW! WEB: Register at http://dimacs.rutgers.edu/k12-prof-dev/

PHONE: (732)445-4065 from Monday through Friday, from 8:00 a.m. to 4:00 p.m.

FAX: Fax form to (732)445-2894, 24-hours a day

MAIL: Send registration to:

K-4 Workshops
CMSCE, Rutgers University
SERC Building, Busch Campus, 118 Frelinghuysen Road
Piscataway, NJ 08854

Admittance to the workshop may be denied if no payment method is submitted by the day of the workshop and billing information is not completed. Once your registration is received complete with billing information, a confirmation letter including a map, directions, and parking information will be sent to you.

Cancellation Policy

A full refund minus a $25 processing fee per registration will be issued to the appropriate party if this office is notified in writing at least five (5) business days prior to the workshop date. If you cancel within five (5) business days, or if neither you nor a substitute attends the workshop without notifying us, no refund will be issued.

All workshops are subject to cancellation for insufficient enrollment, in which case participants will be notified five (5) business days in advance.

Other Programs

To obtain further information about our programs call (732)445-4065, email programs@dimacs.rutgers.edu or visit the website at http://dimacs.rutgers.edu/k12-prof-dev/
# Registration Form

## Standards-Based Mathematics Workshops for Grade K-4 Teachers

To reserve a space in the workshop, send in the registration form promptly; do not wait for your district to submit materials for you. Your registration will not be processed unless the billing information below is completed.

*(Use a separate copy of this form for each registrant – attach multiple registrations from same school/district together)*

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Please check appropriate box: (remember to attach separate forms for each registrant):

- ☐ 1-3 Workshop Registrations: ______x $195 = __________total due
- ☐ 4-9 Workshop Registrations: ______x $175 = __________total due
- ☐ 10 or more Workshop Registrations: ______x $155 = __________total due
- ☐ Special Fee Workshop Registrations: ____x $____ = __________total due

- ☐ Payment will be made by purchase order (fill out form below).
- ☐ Payment will be made by personal check (include with registration).

**Billing Information (Required)** — Please fill in the following if using a Purchase Order for payment and the billing address is different from the school address above. If it is the same, please check the box below. **Registrations will not be processed if the following information is not completed.** ☐ Please use the work address above

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Please enter the workshop code number for each workshop you would like to attend (to register for more than eight, copy and attach additional sheets):

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<th>Workshop Code Number</th>
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ASK Workshops

Please pass this brochure along to:

- Mathematics Supervisor
- Curriculum Leader
- Colleague