Registration begins at 4:00.
4:00 – 8:00  Exhibits
4:00 – 5:30  Refreshments
4:30 – 5:15  Session I
5:30 – 6:00  Keynote Address
6:00 – 6:15  Business Meeting
6:30 – 7:15  Session II
7:15 – 8:00  Dinner and Door Prizes

Registration and Exhibits
4:30pm – 8:00pm
Main Hall- near front entrance

A limited number of dinner tickets are available for purchase. See the registration desk if you are interested.

Light refreshments will be available until 5:30 pm. A map of Powhatan Run High School is located on a loose sheet inside of this booklet.

The exhibits will be in the Main Hall beginning at 4:30 pm and continuing through 8 pm.

Vendors include:
- McDougall Littel
- Great Source
- Amsco
- Houghton Mifflin
- Walton’s Mountain Software
- Globe Fearson/Pearson Education
- Glencoe/McGraw-Hill
- Prentice Hall
- NCTM

Session I
4:30pm - 5:15pm

Please Note: Sessions are listed in the order of their beginning grade level. General Interest sessions are listed at the end.

Level: K
Speaker: Mary Sue Mckenna, Beaverdam Elementary
Room: Shapes, Shapes, and More Shapes
This workshop is to provide kindergarten teachers with a pre-assessment activity, activities, resources, children’s literature and a post-assessment on shapes. Door prizes at the end!

Level: K-2
Speaker: Elizabeth Barr, Pocahontas Elementary School (Powhatan)
Room: Gingerbread Math
This activity is a multi-day activity that covers estimation, measuring, sorting, patterning, and using money. THIS PRESENTATION WILL BE REPEATED DURING SESSION II.

Level: K-5
Speaker: Dr. Jess Fulk, Walton’s Mountain Software
Room: Interactive Voiced Software to Enhance Number Sense
Strategies will be demonstrated that help students master major math concepts. The strategies teach counting, comparing and ordering, place value, operations and problem solving. Free CD.
Are You Feeling Out of Shape? - Geometry for grades K-5

Speakers:
- Jacqui Mawyer, Powhatan Elementary School
- Anne, Blevins

Room:
Great ideas will be presented for hands-on and small group work.

A Journey to Mali: Connecting Mathematics, Art, English and History

Speaker:
- Dr. Cheryl Adeyemi, Virginia State University

Room:
Problem solving in the content areas of Algebra and Geometry come alive in a series of hands-on activities that infuse storytelling, song and cultural artifacts from the African country of Mali (a third grade SOL). Activities can be used at other grade levels. THIS PRESENTATION WILL BE REPEATED DURING SESSION II.

Word Walls in Math Class?

Speakers:
- Vickie Bohidar, Bellwood Elementary School
- Betsy Lemley, Bellwood Elementary School

Room:
Learn how to incorporate word walls in math class using fun games and activities. A CD of word wall cards will be provided.

Using Games for Mathematical Connections

Speaker:
- Rebecca Nelson, Virginia State University

Room:
Examine and play some games that can help lower elementary grade students connect mathematical ideas and strategies. THIS PRESENTATION WILL BE REPEATED DURING SESSION II.

Delightful Decimals - Linking Understanding and Application

Speaker:
- Sherlyn Dibble, Ruby F. Carver Elementary School (Henrico)
- Julie Adkins, Ruby F. Carver Elementary School (Henrico)

Room:
This presentation will share activities that support the development of number sense, with regard to decimals and emphasize SOL skills built on this understanding. THIS PRESENTATION WILL BE REPEATED DURING SESSION II.

Donald Duck in Your Math Classroom, Part I (Part II will be presented in session II)

Speaker:
- Lisa Hall, Jacob L. Adams Elementary School

Room:
Make real-world connections and bring math alive using Disney’s “Donald in Mathmagicland” video. Topics include Pythagoras, the Golden Ratio, and Fibonacci numbers.

Video Streaming in the Mathematics Classroom - Graphing Reality

Speakers:
- Michael Bolling, Chesterfield County Schools

Room:
Incorporate multiple technologies into the mathematics classroom to engage and motivate your students. The workshop will explore the use of video streaming and PowerPoint in the context of an introductory graphing lesson called Graphing Reality. THIS PRESENTATION WILL BE REPEATED DURING SESSION II.

Frog Olympics

Speakers:
- Scott Bailey, Powhatan Junior High School
- Karyn Church, Powhatan Junior High School

Room:
Enjoy making origami frogs and watch them jump! The data we collect will be used to determine mean, median, and mode. THIS PRESENTATION WILL BE REPEATED DURING SESSION II.

Brain Game Activities for Middle School

Speaker:
- Bill Setzer, McDougal Littell

Strategies to motivate active learning in the middle school classroom. THIS PRESENTATION WILL BE REPEATED DURING SESSION II.
Using Cryptography to Teach Mathematics  
**Betsey Davis, Mathematics and Science Center**

Room:
Explore historical code breaking methods to review matrices and linear relationships using data analysis on a graphing calculator. Middle school through high school activities will be provided. THIS PRESENTATION WILL BE REPEATED DURING SESSION II.

Putting Mystery in Algebra  
**Shirl Ratliff, Lee-Davis High School**  
**Jeni Kemp, Lee Davis High School**

Room:
This session will give participants the materials needed to play “The Mystery Clue Game” and if time permits “Algemart” THIS PRESENTATION WILL BE REPEATED DURING SESSION II.

Geometry Success for All Students  
**Helen B. Luster, Hampton University**  
**Ann Sebrell, Godwin High School, Mathematics and Technology Center**

Room:
In the workshop, hands-on activities will be used that engage participants in using manipulatives to discover relationships in geometry. Participants will handle and make models and use diagrams that will aid in the teaching of geometry. THIS PRESENTATION WILL BE REPEATED DURING SESSION II.

Shadow Reckoning  
**Kenya Wallach, Richmond Community High School**

Room:
Topics in Geometry, Algebra II, and Trigonometry will be covered. This model lesson will help students understand the "why" behind similar triangles. THIS PRESENTATION WILL BE REPEATED DURING SESSION II.

Integrating Technology into the Algebra I Curriculum  
**Skip Tyler, Varina High School**

Room:
Explore and discuss the variety of ways to incorporate technology into the math classroom. Topics include utilizing math software applications, web sites, and presentations. THIS PRESENTATION WILL BE REPEATED DURING SESSION II.

Getting a Handle on Logic  
**Lee Anne Boyd, Powhatan High School**

Room:
Hands on activities for the logic topics taught in high school geometry. THIS PRESENTATION WILL BE REPEATED DURING SESSION II.

Seeking Mathematical Converts: Connecting with Students  
**Daniel Joseph, Virginia Military Institute**

Room:
We know that math is fascinating and has something to capture almost any imagination. How can we share this (and mathematical careers) with out students? THIS PRESENTATION WILL BE REPEATED DURING SESSION II.

**Keynote Speaker**  
**5:30pm - 6:00pm**  
**Auditorium**  
**The Math Science Connection**
John Norton, President and Chief Mad Scientist, Mad Science

Mr. Norton will lead a demonstration lesson using a science activity incorporating nylon springs, “boings”. He’ll show the audience how the activity can be modified for all grade levels.

GRCTM Business Meeting
6:00pm - 6:15pm

GRCTM President Lynn Reid will preside.
Please stay and participate in the business of your organization.

Session II
6:30pm - 7:15pm

<table>
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<tr>
<th>Please Note:</th>
<th>Sessions are listed in the order of their <strong>beginning grade level</strong>.</th>
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</table>
| Level: **K-2** | **Gingerbread Math**  
Speaker: Elizabeth Barr, Pocahontas Elementary School (Powhatan)  
Room:  
This activity is a multi-day activity that covers estimation, measuring, sorting, patterning, and using money. |
| Level: **1-3** | **A Journey to Mali: Connecting Mathematics, Art, English and History**  
Speaker: Cheryl Adeyemi, Virginia State University  
Presider:  
Room:  
Problem solving in the content areas of Algebra and Geometry come alive in a series of hands-on activities that infuse storytelling, song and cultural artifacts from the African country of Mali (a third grade SOL). Activities can be used at other grade levels. |
| Level: **2-4** | **Using Games for Mathematical Connections**  
Speaker: Rebecca Nelson, Virginia State University  
Presider:  
Room:  
Examine and play some games that can help lower elementary grade students connect mathematical ideas and strategies. |
| Level: **3-5** | **Delightful Decimals: Linking Understanding and Application**  
Speaker: Sherlyn Dibble, Ruby F. Carver Elementary School (Henrico)  
Julie Adkins, Ruby F. Carver Elementary School (Henrico)  
Room:  
This presentation will share activities that support the development of number sense, with regard to decimals and emphasize SOL skills built on this understanding. |
| Level: **5-8** | **Donald Duck in Your Math Classroom, Part I (Part II will be presented in session II)**  
Speaker: Lisa Hall, Jacob L. Adams Elementary School  
Presider:  
Room:  
Make real-world connections and bring math alive using Disney’s “Donald in Mathmagicland” video. Topics include Pythagoras, the Golden Ratio, and Fibonacci numbers. |
| Level: **6-8** | **Brain Game Activities for Middle School**  
Speaker: Bill Setzer, McDougal Littell  
Presider:  
Room:  
Strategies to motivate active learning in the middle school classroom. |
Level: 6-8  
**Frog Olympics**  
Speakers:  
Scott Bailey, Powhatan Junior High School  
Karyn Church, Powhatan Junior High School  
Room:  
Enjoy making origami frogs and watch them jump! The data we collect will be used to determine mean, median, and mode.

Level: 6-8  
**Video Streaming in the Mathematics Classroom - Graphing Reality**  
Speakers:  
Michael Bolling, Chesterfield County Schools  
Room:  
Incorporate multiple technologies into the mathematics classroom to engage and motivate your students. The workshop will explore the use of video streaming and PowerPoint in the context of an introductory graphing lesson called Graphing Reality.

Level: 6-9  
**Start Your Engines!**  
Speakers:  
Angie Akins, Powhatan Junior High School  
Virginia Vimpaney Lewis, Powhatan Junior High School  
Room:  
Use a new web-based lesson from mathinscience.info. Students use NASCAR data to explore how to construct and interpret box and whisker plots.

Speaker:  
**Exciting and Enjoyable Software to Make Understand Difficult Math Concepts Meaningful and Fun**  
Dr. Jess Fulk, Walton’s Mountain Software  
Room:  
Interactive computer software that gets students excited about learning math. Strategies presented develop understanding of the most difficult mathematics concepts. Free CD and worksheets.

Level: 6-9 & General  
**Error Patterns**  
Speaker:  
Dr. Kenneth Bernard, Virginia State University  
Room:  
Sometimes students use an incorrect process or algorithm to solve a pattern. This may be from lack of understanding or some fundamental misconception. Some error patterns are easier to determine than others. The audience is invited to share some of their most interesting student errors.

Level: 6-12  
**Using Cryptography to Teach Mathematics**  
Speaker:  
Betsey Davis, Mathematics and Science Center  
Room:  
Explore historical code breaking methods to review matrices and linear relationships using data analysis on a graphing calculator. Middle school through high school activities will be provided.

Level: 6-12  
**Putting Mystery in Algebra**  
Speaker:  
Shirl Ratliff, Lee-Davis High School  
Jeni Kemp, Lee Davis High School  
Room:  
This session will give participants the materials needed to play "The Mystery Clue Game" and if time permits "Algemart"

Level: 9-12  
**Geometry Success for All Students**  
Speaker:  
Helen B. Luster, Hampton University  
Presider:  
Ann Sebrell, Godwin High School, Mathematics and Technology Center  
Room:  113  
In the workshop, hands-on activities will be used that engage participants in using manipulatives to discover relationships in geometry. Participants will handle and make models and use diagrams that will aid in the teaching of geometry.

Level: 9-12  
**Shadow Reckoning**  
Speaker:  
Kenya Wallach, Richmond Community High School  
Room:  
Topics in Geometry, Algebra II, and Trigonometry will be covered. This model lesson will help students understand the "why" behind similar triangles.

Level: 9-12  
**Getting a Handle on Logic**  
Speaker:  
Lee Anne Boyd, Powhatan High School  
Room:  
Hands on activities for the logic topics taught in high school geometry.
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Skip Tyler, Varina High School

Explore and discuss the variety of ways to incorporate technology into the math classroom. Topics include utilizing math software applications, web sites, and presentations.

Seeking Mathematical Converts: Connecting with Students
Daniel Joseph, Virginia Military Institute

We know that math is fascinating and has something to capture almost any imagination. How can we share this (and mathematical careers) with our students?

Dinner by Perrin’s Barbeque in Powhatan and Door Prizes
7:15pm - 8:00pm