



THE VALLEY OF VIRGINIA COUNCIL OF TEACHERS OF MATHEMATICS (V²CTM)

OCTOBER 2024

VOLUME 54, NUMBER 1

Join us for this year's V2CTM Fall Conference,
A Vote for Math: Exploring Math Related to Elections

Tuesday, October 15, 2024

Rocktown High School

2970 East Kaylor Park Drive, Harrisonburg, VA

Register at [V2CTMFall2024](https://v2ctm.org/V2CTMFall2024) by October 4.

Conference registration is \$15 (\$5 for students)
and includes a catered dinner.

There will be numerous appealing door prizes!

V²CTM FALL NEWSLETTER

4:30 PM	DOORS OPEN
4:30 - 5:00 PM	REGISTRATION
5:00 PM -	DINNER CATERED BY WHITE HILL CATERING
5:45 PM	PORK BARBECUE, COLE SLAW, MAC 'N CHEESE, GARDEN SALAD, DESSERT, TEA, AND WATER
5:45 PM -	BUSINESS MEETING
6:00 PM	BRIAN NUSSBAUM, V2CTM PRESIDENT
6:15 PM -	A VOTE FOR MATH: EXPLORING MATH RELATED TO ELECTIONS
7:30 PM	BREAKOUT SESSIONS FOR GRADES K-5 AND GRADES 6-12 (DESCRIPTIONS FOLLOW)

October 15, 2024
Rocktown High School
Harrisonburg, VA



[BIT.LY/V2CTMFALL2024](https://bit.ly/v2ctmfall2024)

GR K-5 SESSION: HOW DO WE KNOW WHO WINS AN ELECTION? CHRIS WILLINGHAM

Is determining the winner of an election always a matter of counting the votes and finding out who received the largest share? Are there other systems of voting that might produce more fair election outcomes? If so, what exactly does fair mean in this context? In this session we'll explore these questions, consider the mathematics and equity involved in different systems of voting, and look at a classroom activity designed to help students consider these topics.

Chris Willingham is an associate professor in the Department of Mathematics and Statistics at James Madison University. He works with K – 12 STEM teachers in all stages of their professional growth.

GR 6-12 SESSION: THE U.S. ELECTORAL COLLEGE

ALEXIS STEVENS

This session will focus on the mathematics of the U.S. Electoral College. We'll use proportional reasoning to determine the next President. Session participants will leave with a presentation and handouts ready to implement in their classroom before election day.

Alexis Stevens is a mathematics educator at James Madison University. She loves helping future teachers appreciate mathematics (almost) as much as she does.

NEWS FROM THE VIRGINIA DEPARTMENT OF EDUCATION

VDOE 2023 MATHEMATICS STANDARDS OF LEARNING

2023 MATHEMATICS INSTRUCTIONAL RESOURCES

In late August, technical edits were made to the [*Mathematics Instructional Guides and Understanding the Standards*](#) documents based on stakeholder feedback (e.g., teachers, division leaders) to clarify and add specificity to content. Impacted documents will reflect [August 2024] in the footnote. Computer Science *Standards of Learning* are included in this edition of the K-5 Mathematics Instructional Guides in the *Concepts and Connections* section to reflect authentic connections between mathematics and computer science content.

UPCOMING EVENTS

VCTM ANNUAL CONFERENCE 2025

Be on the lookout for details coming soon - [VCTM website](#)

VIRGINIA COUNCIL OF MATHEMATICS SPECIALISTS [ANNUAL CONFERENCE](#)

Charlottesville ~ Nov. 7-8, 2024

[LEARN MORE HERE](#)



H. JOSEPH HILL AWARD FOR EXCELLENCE IN MATHEMATICS EDUCATION

Each year, the Valley of Virginia Council of Teachers of Mathematics recognizes a classroom teacher at the elementary, middle, secondary, or university level for their outstanding work in the field of mathematics education. Nominees should have taught for at least five years and should demonstrate outstanding work in the field of mathematics education. *Nominations are due by December 13*, and the award winner will be announced at the Spring conference.

Nominate a deserving educator today!

[JoeHillAward2025Nomination](#)



2024-2025 V2CTM OFFICERS

- President..... Brian Nussbaum, Harrisonburg City (bnussbaum@harrisonburg.k12.va.us)
- President-Elect.....Amanda Rickard, Rockingham County (arickard@rockingham.k12.va.us)
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**PLEASE SHARE THIS NEWSLETTER
WITH ALL
CURRENT AND PRE-SERVICE
MATHEMATICS TEACHERS,
GRADES PreK-12**