

Tidewater Council of Teachers of Mathematics (TCTM) Winter 2019 Presenter Application

Please complete the application to present a 50 minute session at our Winter 2019 Conference. Applications are due December 31, 2018. This year, our theme is "Illuminating the Way". The conference will be held at Plaza Middle School in Virginia Beach, Virginia on Saturday, February 2, 2019. If your application is approved, you will be provided complimentary registration and lunch.

The conference goal is to have breakout sessions that focus on Virginia mathematics standards and instructional best practices to help educators across the Tidewater area. Specifically, we are looking for sessions that create opportunities for all students to master the 2016 SOLs through inquiry, technology, and hands-on learning.

Required fields are marked with an asterisk. Once complete, your application will be sent to our conference committee for review.

Should you have any questions or concerns, please email Katelyn.Devine515@gmail.com.

Thank you for your application, and one of our committee members will be in touch with you soon.

* Required

Email address *

katelyn.devine515@gmail.com

Full Name *

Katelyn Devine

Co-Presenter(s) Full Name(s) (if applicable)

Your answer



Phone Number *

757-000-0000

City or County of Employment *

Virginia Beach

School or Work Site *

Plaza Middle

Have you presented at a TCTM conference before? *

Yes

No

Presentation Title *

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Presentation Description - This description will be printed in the conference program. If possible, include the SOL Objective number. The Standards of Learning within each strand progress in complexity throughout the grade levels and into high school course content, therefore, while you may be focusing on one specific grade level, your material may be adapted to other grade levels. Please include additional grade levels in your intended audience. (Limit to 350 characters) *

Proportional reasoning is the culmination of elementary math reasoning and the cornerstone of algebraic reasoning. In this session, participants will develop and connect multiple representations of proportions by exploring a jet fuel task. This will be done through the exploration of the 5 practices that support mathematical discussion. Further discussion of the importance of student self-creation of algorithms will occur. SOL 7.10 (can be adapted to use in grades 6-Algebra 1).



Detailed Description: Information provided here will give the presentation selection committee additional insight to your session. Please include participant learning and how your session will support the focus of the conference: Changes to the SOLs and/or Creating Opportunities for All Students. (Limit to 1,000 characters) *

Participants will be introduced to CRA Assessments and mathematical ideas from "Mathematical Mindsets" by Jo Boaler and "Solving for Why: Understanding, Assessing, and Teaching Students Who Struggle with Math" by John Tapper. This research will serve as the basis for the work in the session. Participants will then complete a Jet Fuel task dealing with proportional reasoning. Participants will be given the ratio of gasoline to kerosene in JP-4 and asked to increase the batch so that there are 21 gallons of kerosene. Participants will be asked to complete the task using as many different representations as they can (linking cubes and double number lines will be provided). Participants will then be introduced to the 5 practices for orchestrating productive math discussions from the work of Margaret Smith. Participants will work in their group to determine what misconceptions students might have and questions or activities they could do with students to overcome those misconceptions without giving them the answer. Participants will then sequence examples of students work, making decisions as a group about which tasks to keep and which to get rid of. Finally, this task will be aligned to the state standards and NCTM math practices.

Grade Band: *

- K-2
- 3-5
- 6-8
- Algebra 1
- Geometry
- Algebra 2 and Beyond



Are you able to share your materials with our members electronically? *

- Yes
 No

Would you be willing to present this session more than once?

- Yes
 No

What type of technology will you need? All rooms will have a interactive board and necessary chord to connect a PC. Should you require connection for a Chromebook or Mac, you will need to bring your own dongle. (Please note: some types of technology may be unavailable. Our conference committee will reach out to you regarding your request.) *

Document Camera

Additional Comments (Optional)

None

A copy of your responses will be emailed to the address you provided.

SUBMIT

Never submit passwords through Google Forms.



Google Forms

