



**MESA** Math  
Engineering  
Science  
Achievement

**Tacoma/South Puget Sound**



## Visit from WA MESA

Sezi Flemming the Director of STEM at WA MESA paid our center a visit. This was a great opportunity to discuss the new curriculum, welcome our director back from maternity leave and most importantly discuss the important work we do with BIPOC students.

### WHAT'S IN THIS MONTH'S ISSUE:

- New Mentors
- New Curriculum
- MESAGiving
- Teacher Spotlight
- Parent Welcome Night
- MESA Staff in your Schools



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## NEW MENTOR



This is Moriah, she is a second year PLU student majoring in Sociology and minoring in Psychology. In her free time she likes to read, re-watch favorite shows, and go for walks. Working with and teaching young children is her career goal for the future.





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## NEW MENTOR



This is Emily Moore and she is from Beaverton, Oregon. Emily is a third year student at PLU and is double majoring in Elementary Education and Hispanic Studies.



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## NEW CURRICULUM

### LESSON SEQUENCE AND LEARNING TARGETS

#### Lesson One: Introduction to Drones

- ❑ I can understand how a drone is flown and the laws that affect their operation.
- ❑ I can understand how block coding can be used to give instructions to machines.

#### Lesson Two: Flying Drones Safely

- ❑ I can compare scenarios for safe and unsafe drone operation.
- ❑ I can consider the reasons why drone laws would be enacted.

#### Lesson Three: Block Coding Drones

- ❑ I can identify components of block programming language.
- ❑ I can construct and follow a set of sequential instructions.

#### Lesson Four: Coding with Loops

- ❑ I can compare sequences and loops in block coding.
- ❑ I can translate loops in code from natural English instructions into block-based code.

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#### Lesson Five: Delivery Abstraction

- ❑ I can understand the steps of a drone delivery.
- ❑ I can construct a simulation of a drone delivery.
- ❑ I can consider the effectiveness of

#### Lesson Six: Investigating Sensors

- ❑ I can compare the information collected by drone sensors to information gathered by human senses.
- ❑ I can program drones to simulate the flight paths that

#### Lesson Seven: Using Operators

- ❑ I can simulate a real world flight by coding a flight pattern to scale.
- ❑ I can convert metric units for flight into imperial units.

#### Lesson Eight: Using the Camera for Data Collection

- ❑ I can compare and contrast the relationship between drones and other tools to capture information.
- ❑ I can design a flight scenario to capture

This year we have added a new lesson to our curriculum. Our middle and high school students will be learning about Drones, how to fly them and how to connect coding with drones. Students will be able to display their final work during MESA Day on April 24th, 2023.

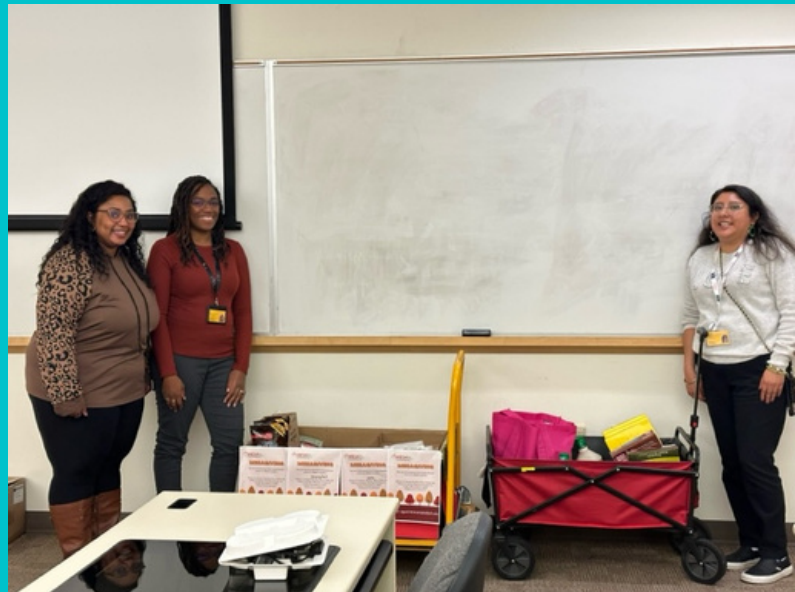


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## MESAGIVING

Thank you to all that donated to our MESAGiving this year. We were able to impact 8-9 families from Mount Tahoma High School. There was everything from macaroni & cheese, mashed potatoes, sweet yam, cornbread mix, and more. We really appreciate the support in making this a reality.







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## TEACHER SPOTLIGHT:

Paula Yost teaches Tech Tools and AP Computer Science Principles at Stadium High School. This is her second year as the MESA advisor and she is excited to have a greater level of participation this year than last. Although, last year was her first year as MESA advisor AND the first year MESA is available to Stadium students, the number of students attending has more than doubled. Currently she is working on forming teams of students to focus on the various competition options available at MESA Day. Her MESA club members just finished cabinet elections and are looking forward to really digging into coding and learning more about drones.

Paula Yost from Stadium  
High School

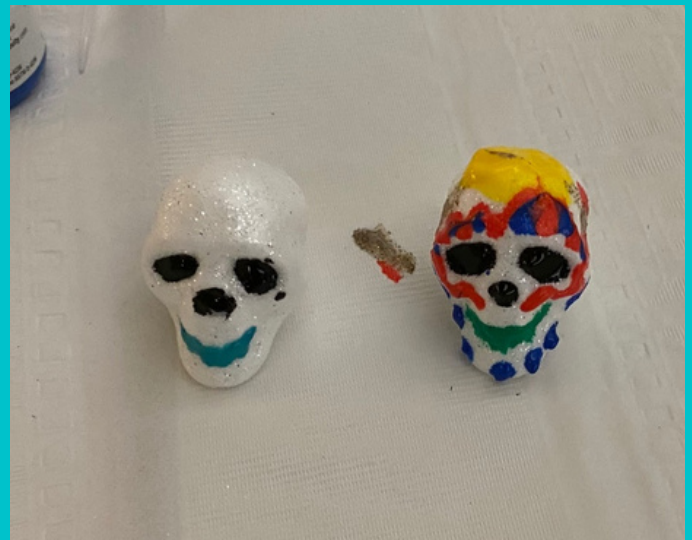




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## MESA PARENT WELCOME NIGHT: Día de los Muertos



Families came together to learn about the various ways this tradition is celebrated across cultures. From an indigenous community in Michoacán to the Philippines. The community came together to think of their loved ones. We had a fun time.



## MESA PARENT WELCOME NIGHT: Día de los Muertos



We were able to see how the altar was put together, parents also had a chance to talk to our parent board.





## MESA Staff in your Schools:

MESA Staff has been visiting MESA students and their schools (Ashley and Toniqua have gone to Spanaway Middle School, Spanaway Lake High School, Lochburn Middle School, SAMI High School, and Stadium High School.)



WOC students in a mini Straw Tower Challenge



## MESA Staff in your Schools:

The visits have helped increase MESA representations in different school districts throughout the Tacoma/South Puget Sound Area. If you have not seen us in your school yet, we will be there in the new year!



BIPOC students in a mini Straw Tower Challenge





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## HAPPY HOLIDAYS

A sincere thank you for creating memories  
with us and we hope to continue in the  
New Year!







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## COMMUNITY RESOURCES

- *24-hour Pierce County Crisis Line  
(800) 576-7764*
- *24-hour Pierce County Crisis Text Line  
Text "HEAL" or "NAMI" to 741741*
- TACID (Tacoma Area Coalition for  
Individuals w/ Disabilities)  
(253) 565-9000  
*support, education, info, referrals*

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# NEWSLETTER

Vol. 8



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