

Thursday, August 10, 2023

Your monthly update to all things Mu Alpha Theta!

Editor: Kathy Mowers, kathy@mualphatheta.org



Winners

Top 5 schools overall at the 2023 MAT National Convention:

Buchholz
American Heritage Broward
American Heritage Palm Beach
Vestavia Hills
Thomas Jefferson

Chalk Talk winners:

Theta: Chloe Zhang from Buchholz
Alpha: Roshini Shivakumar from American
Heritage Broward
Mu: Himel Bamzai-Wohlku from Buchholz

Best Video
Brentwood HS



Poster Contest 1st Place
Buchholz High School



Poster Contest 2nd Place
Thomas Jefferson High School

Poster Session Winners #1 - #10 are available on the website copy of
the newsletter.



Congratulations to Tucker Shea, Kalin Awardee

Tucker intends to major in Electrical and Computer Engineering and pursue a career in computer technology and applied mathematics. As such, mathematics will be critical to his higher education and career.



Tucker in his own words:
Participating in Mu Alpha Theta has not only helped me develop my love for math, but also taught me the importance of helping the people around me learn. As I learn, I write study guides and interesting problems, and share them with my teammates. Through our annual Pre-Algebra summer camps and the Probability course I co-taught in preparation for the 2022 National Convention, I learned how much I enjoyed teaching and helping others learn.

Working with FAMAT to rebuild our website has only reinforced these values, demonstrating to me how much I like to give back to my math community.



President's Message

Hello all,

I hope everyone had a relaxing summer in preparation for another exciting year of Mu Alpha Theta! Our annual National Convention was held at the University of Arkansas June 25-30 and a great time was had by all. Congratulations to Buchholz High School for winning the National Championship.

As we prepare for the local, state and national events in the 2023-24 school year, I'll be having monthly zoom meetings for the sponsors and a separate meeting for the students. Every chapter prepares and participates in different ways. Many of you will have questions along the way and these meetings are an opportunity to answer those questions and move your chapter forward, leading up to our 2024

National Convention in Las Vegas July 7-12, 2024. The first Zoom meeting will occur in SEPTEMBER on Saturday, 9/16. We will send out the date, time and zoom information once a Saturday is chosen. Each month, the sponsor meeting will be from 2-3:30pm EST and the student meeting from 4-5pm EST.

If any of you ever have questions along the way, please email me at robsnow23@yahoo.com, and I'll be happy to answer them. I hope everyone has a great year, and I'll see you in Las Vegas!

Thanks,
Rob Snow
President, Mu Alpha Theta

Executive Director's Message

I hope everyone has had a chance to recover from our time in Fayetteville, Arkansas, for our National Convention - what an adventure! The wonderful convention team and the staff at the University of Arkansas provided a great week for us! Congratulations to all teams who competed, to all of the sponsors who proctored and organized and coordinated, and to all the MAΘ Governing Council members and volunteers who made it all happen. A special THANK YOU to Kim Woolfenden, Tonia Crow, and Rob Snow for all of their time and talents before, during, and after this amazing event!

Now preparations begin for the 2024 National Convention in Las Vegas, July 7-12, 2024! Start your fundraising and make plans to join us at the Alexis Park All Suite Resort just off "The Strip" in Las Vegas next July.

Alexis Park will house us, feed us, and host all of the competitions and events in their conference rooms and resort areas during the convention, and is a ***non-gaming*** hotel. Details for sponsors will be coming soon!

The 2023-2024 Mu Alpha Theta scholarship and award applications will open on September 1. You can find information and those links on our website.

Sincerely,
Dana Wade
Executive Director



Student Delegate Officers 2023-2024

Jesse Brodtman, President
bd561311@ahschool.com
American Heritage Palm Beach
Region 4

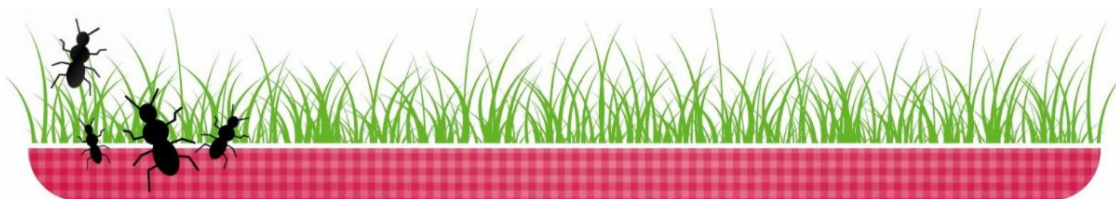
Peter Le, Vice President
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Jesuit High School of New Orleans
Region 2

Allison Xie Secretary
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Vestavia Hills High School
Region 3

**Mackenzzy Beppu,
Parliamentarian**
mackenzzy.beppu@imua.ksbe.edu
Kamehameha Schools Kapālama in
Hawaii.
Region 1



Thanks to the 2022-23 Student Delegates for all their hard work last year. Shown here L to R: Sharvaa Selvan, Dylan Rhoton, Audrey Aulina, Reia Pablo



Sister Scholastica Award

Olanrawayu Fayiga started at Buchholz High School, Gainesville, FL, in the fall of 2003. He had



relocated from Nigeria two years earlier. He has his Bachelor of Science degree in Mechanical Engineering from the University of Ibadan, Nigeria, and a Post Graduate Diploma in International Environmental Engineering from Galilee College, Israel. He teaches Math for College Readiness and Financial Algebra at Buchholz.

The students who recommended Mr Fayiga observed a high level of dedication, compassion, and enthusiasm. Mr. Fayiga is the backbone that keeps the entire team running. He works behind the scenes in almost every logistical aspect of the team from the large tasks such as organizing competitions and booking hotels to the smallest tasks of depositing checks and monitoring parking. Although his countless hours of work are deeply valuable to the team, on a personal level the students are appreciative of his constant support.



Chapter T-shirts

Mu Alpha Theta loves chapter T-shirts. However, it must be clear to all that your T-shirt represents your chapter and not the National organization. Therefore, we ask that you help preserve our copyright by seeking permission for your design.

Send your design to info@mualphatheta.org.

- 1) The side of the shirt that shows the logo, MAT, and/or Mu Alpha Theta must include the school name or its initials.
- 2) Please include your chapter # in your email.



Mu Alpha Theta Calendar of Events

August 1, 2023 – MA0 store opens—free shipping for 2 orders

only during the school year (August 1 – June 30)

September 1, 2023 – Scholarship and Award application portal open on MAO website

September 4, 2023 – Labor Day – National Office closed.

September 14, 2023 -- Next newsletter arrives with news about T-shirt contest.

Saturday, September 16, 2023, 2 – 3:30 ET – Zoom meeting for President and Sponsors

Saturday, September 16, 2023, 4 – 5 ET – Zoom meeting for student delegates

October 25-28, 2023 – NCTM Annual Meeting and Expo, Washington, DC

Annual calendar available at <https://mualphatheta.org/newsletter-archive>

We are trying this new presentation of the newsletter. Please let us know your opinion, and please be patient while we learn. Thanks, Kathy



Thanks to Ziwei Lu

Ziwei Lu served as scorer at the 2023 Convention in Fayetteville, Ark. One of the many unsung heroes without whom the convention would not be possible.

The rest of the year, Ziwei Lu is one of the coaches at Buchholz High School.

Thanks, Ziwei!



Mu Alpha Theta | c/o University of Oklahoma, 3200 Marshall Ave, Suite 150, Norman, OK 73019

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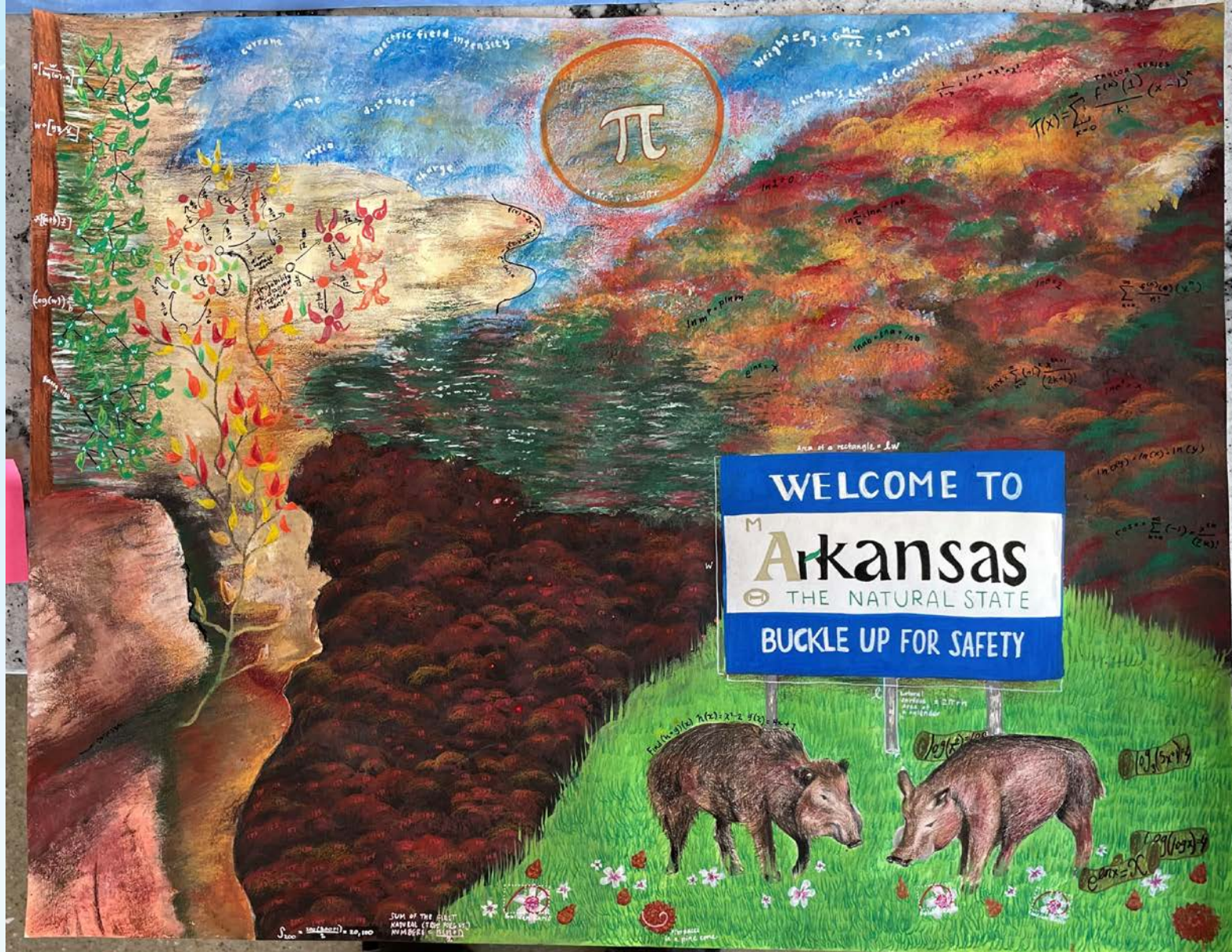
Nationals 2023

P O S T E R

‘math in its natural state’



Buchholz 1st



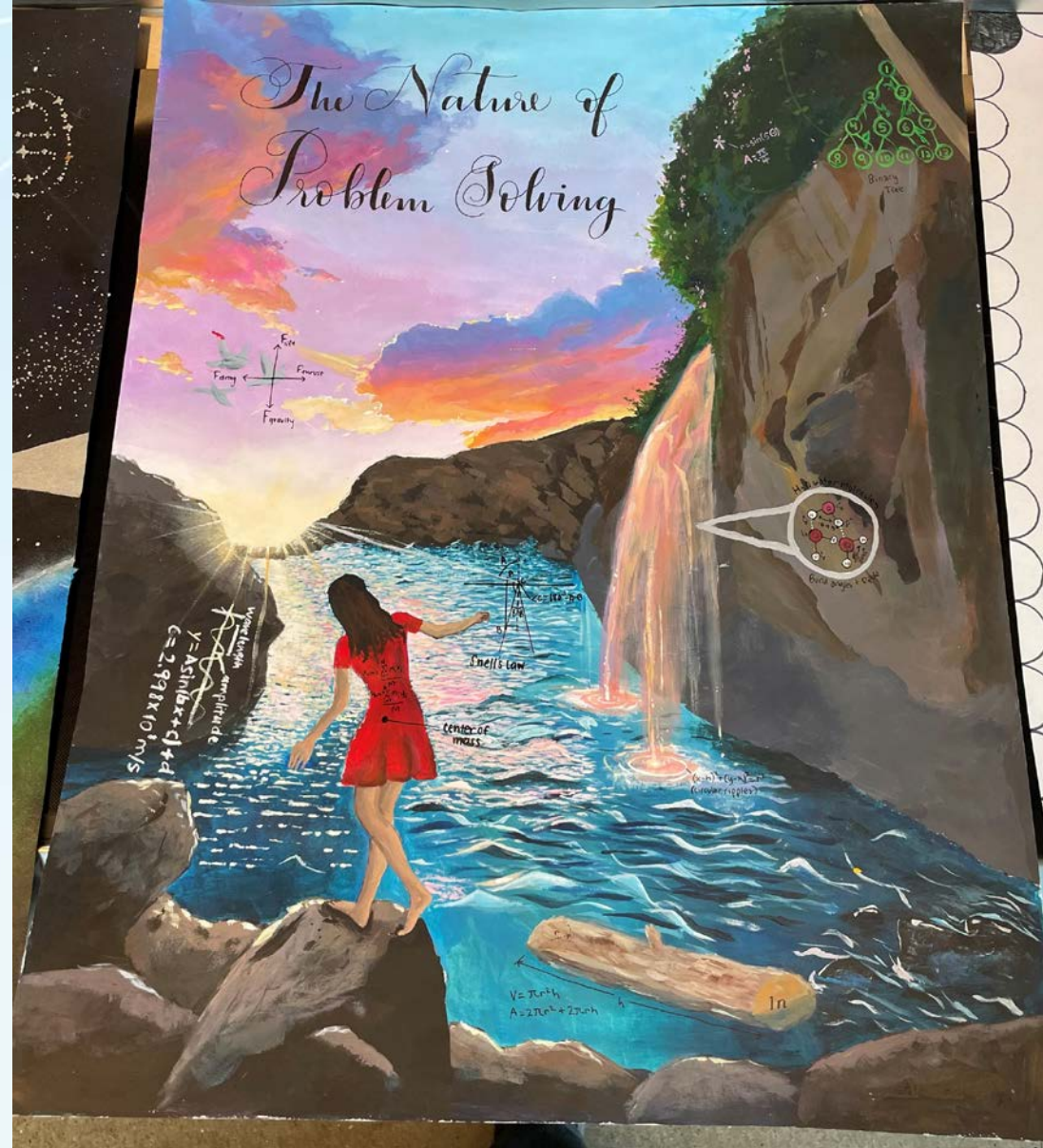
Thomas Jefferson 2nd



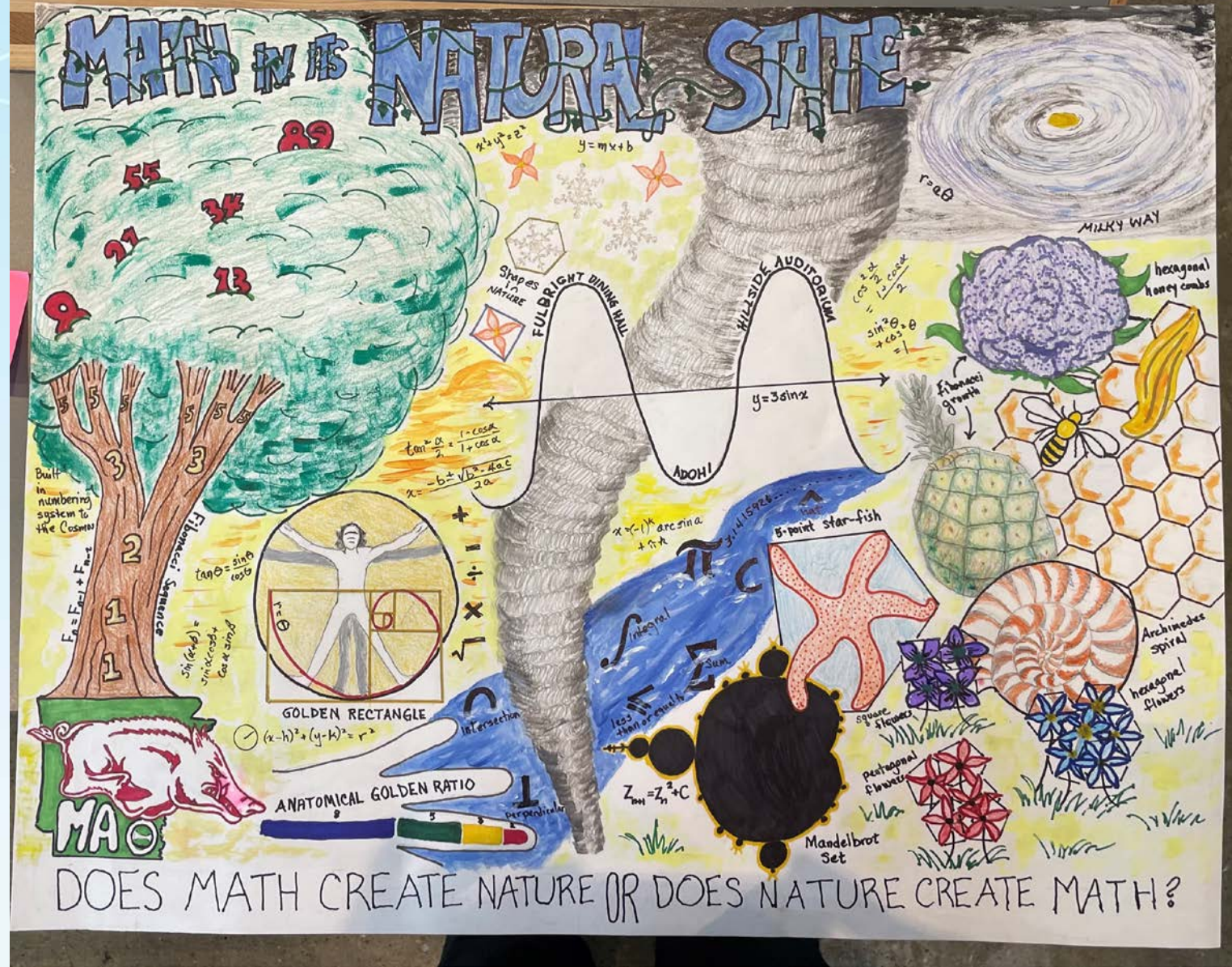
A.H. Broward 3rd



Kamehameha 4th

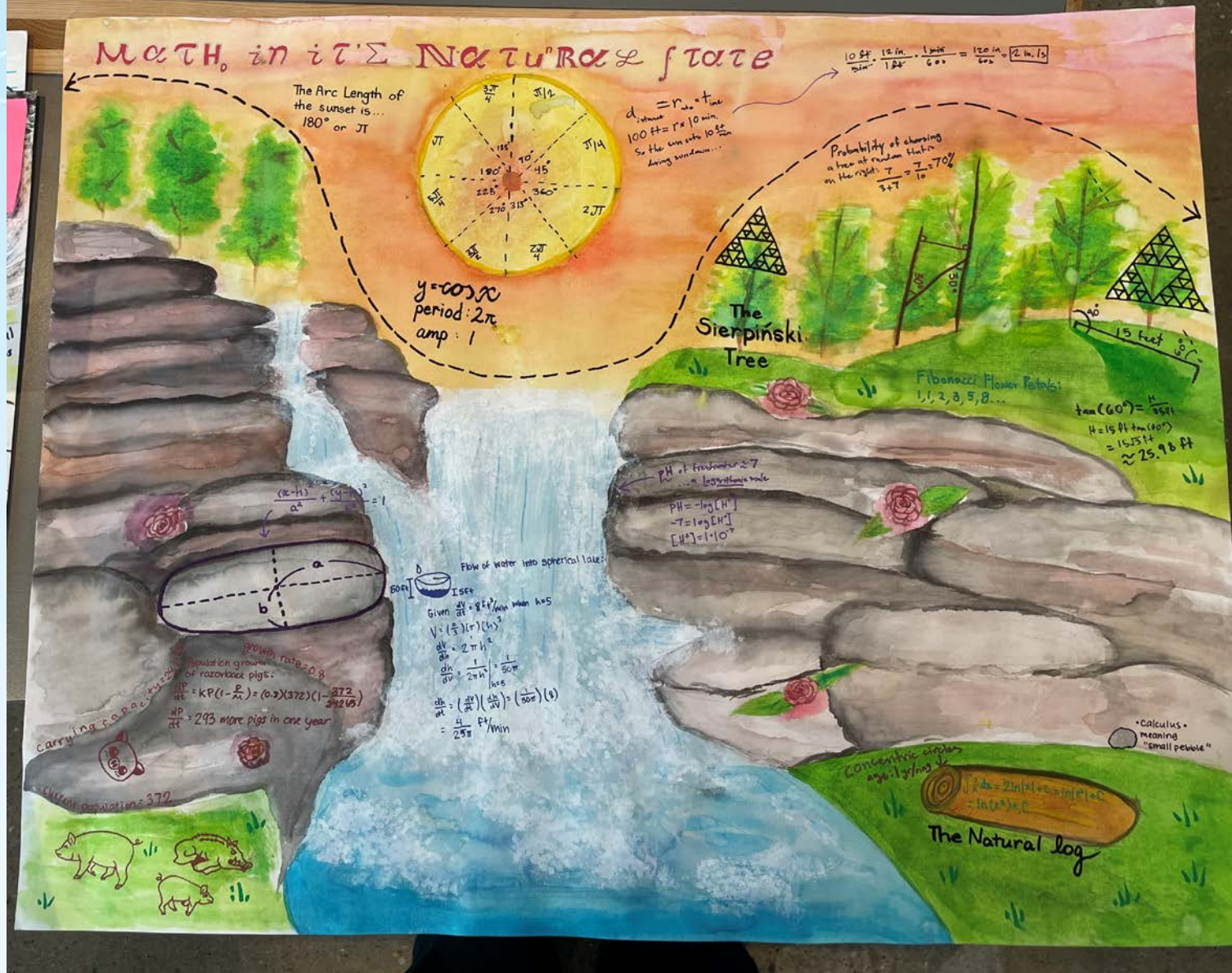


A.H. Palm Beach 5th



DOES MATH CREATE NATURE OR DOES NATURE CREATE MATH?

FSCJ 6th



Brentwood 7th



Scottsbluff 8th



Alabama School of Fine Arts 9th

MATH IN ITS NATURAL STATE

$V = \pi r^2 h$ (cylinder)
 $V = \frac{4}{3} \pi a^3$ (octahedron)
 $A = \frac{3\sqrt{3}}{2} a^2$ (hexagon)

$\sin \theta = \frac{y}{r}, \cos \theta = \frac{x}{r}$

$A^2 + B^2 = C^2$
 $2AA' + 2BB' = 2CC'$

\sum
 ∞
 π

θ
 \neq
 $\%$

$A = bh$
 $A = \frac{1}{2}bh$
 $A = \frac{1}{2}bh$
 $A = \frac{1}{2}bh$

$y = |x| + 2$
 $y = -|x| - 2$
 $y = -|x|$

$x^2 dx$
 $\frac{dP}{dF} = P(1 - \frac{P}{100,000})$

$f(x) = \sin(x)$
 $b \sin(x)$

leaf area = length · width · π
 $LA = f(L,W)$

| Stem | Leaf |
|------|---------|
| 1 | 6 7 8 9 |
| 2 | 2 2 5 |
| 3 | 1 4 8 |
| 4 | 5 6 7 |

$V = \sin(50)$

Fayetteville
 Arkansas
 '23 A ⊖

Fayetteville 10th