



Purple &
Gold

March 2023

UDHS AND BOEING COLLABORATE ON “FACTORY OF THE FUTURE”

This year, Mr. Chris Phillips and Upper Darby High School students Daanish Rehman, Nihon Tirtho, Muntassir Nabeel, Manveer Singh, Josiah Saddick, Michael DL Nguyen, Bon Phosouvanh Sythong, Khatib Ashraf, Jayden Finger, Gianni Williams, Sabir Starks, and David Faust, partnered with Boeing Helicopter in Ridley for a special program that investigated many aspects of the manufacturing and aerospace industry. Boeing hosted the students from the Engineering II class for six workshops at Boeing Helicopter in Ridley. These workshops consisted of many tours of the Chinook and V-22 rotorcraft production lines, the composite manufacturing center, wind tunnel, and other areas of the facility, as well as workshops in assembly methods, modeling, and simulation.

For the last 26 years, students enrolled in the engineering program have had the opportunity to participate in this program, requiring them to develop their own product line and manufacturing facility. These students will present their Factory of the Future projects to parents, school administrators, and Boeing officials on the 18th of April at the Boeing Rotorcraft facility.



CULTURAL EVENTS

Islamic Fair

On March 20, the Muslim Student Association held the Islamic Fair 2023 & Ramadan Kickoff to a packed house in the gym. This fair was meant specifically for students to attend (a smaller fair for teachers was held on February 1). The MSA held many activities, including a henna booth, and a station in which the hijab and abaya (for ladies) and kufi and thone (for men) could be tried on. Club members made an amazing banquet of various cultural foods, including donuts and sliders from Morocco, shami kebab from Pakistan, pakoras from Bangladesh, samosas from India, and chuck rice with chicken gravy from Liberia. The event was coordinated by the group's faculty sponsor, Mr. Kevin Ferry, and co-hosted by Mr. Cuong Do.





African Culture Club Anniversary

The African Culture Club celebrated a milestone anniversary this year with a banquet of their own on Thursday, March 16. Students brought in a number of delicacies from their home countries, and also danced to African music.



ACADEMIC ACHIEVEMENTS

Class Advances in PennDOT Innovations Challenge

Mr. Trung Tchiong's class was a finalist in the Region 6 PennDOT Innovations Challenge, a statewide competition that challenges high school students to come up with solutions to real-world transportation challenges. Mr. Tchiong's class answered the challenge with the following:

Develop an innovative approach to increase commercial truck parking that can accommodate up to 30 semi trucks that are generally 48ft-53 ft long. It will also have restroom facilities, gas services, an on-site medical center, water drainage, and

conventional energy security systems to protect all types of drivers—a green energy gadget to promote the echo system and reduce waste.

The students presented their idea on March 8 in King of Prussia, and competed against Conestoga High School (Chester County), Lower Moreland High School (Montgomery County), and two teams from Pennridge High School (Buck County). While Conestoga was the ultimate winner, our students from Upper Darby were the only representatives from Delaware County, and are to be congratulated!

UDHS Participates in Delaware County Science Fair

Upper Darby was well represented at the Delaware County Science Fair. Every one of our UDHS students who entered won an award this year! Thank you to all who helped make this a success from lending us materials and equipment to providing scientific guidance and practicing judging. Students winning first, second or third place qualify to go on to the very competitive Delaware Valley Science Fair. Please stop by to check out the projects on display in the Library.

9th Grade Division:

- Khandakar Mahir - 2nd place Computer Science - *Evaluating the Accuracy of AI and Deep Learning Mechanisms in Medical Diagnosis*
- Makayla Lee - 2nd place Environmental Sciences - *Effect of Salinity on the Thermal Expansion of Water*
- Iftakhar (Mohd) Tarruno - 1st place Earth & Space Science - *Identifying Lunar Lava Tubes using Thermal Inertia Mapping*

10th Grade Division:

- Terrance Godwin - 1st place Biochemistry - *The Properties of Biodegradable Case in Plastic*
- Keino Shaw - 1st place Chemistry - *Preventing Rust Using Sacrificial Anodes*
Special Award from the Delaware County Intermediate Unit
- Sarah Gentile - 1st place Engineering - *Dampening Sound Made by Roller Coaster Track*
Special Award from the Delaware County Intermediate Unit
- Sophie DeMott - 1st place Physics - *The Relationship Between LED Threshold Voltage and Photon Frequency*
Best of Category

11th Grade Division:

- Janell Moore - 2nd place Behavioral Sciences - *Does Facial Proportion and Symmetry Determine Attractiveness?*

-Elise Olmstead - 1st place Earth & Space Science - *Analysis of Double Ridges on Europa*
Best of Category Special Award from Delaware County Institute of Science

12th Grade Division:

-Zahid Rafeek - 2nd place Computer Science - *Teaching a Computer to Play 2048*
-Josiah Saddick - 2nd place Earth & Space Science - *Basalt Thickness of Mare Imbrium Using Two Methods*
-Luke Olmstead - Honorable Mention Earth & Space Science - *Can Moisture Content Predict a Mudslide?*
-Abrar Laskar - 1st place Engineering - *Effect of Shade Balls on Evaporation Suppression*
Special Award from the PA Society of Professional Engineers

Teams Division:

-Andy Luu/Alan Luu/Nick Fitzpatrick - 1st place 12th grade Teams - *Texting vs Calling: Comparing Reaction Time While Driving*
Special Award from the Delaware County Intermediate Unit
-Ridwan Muntassir/Muntasir Nabeel - 1st place 10th grade Teams - *Effect of Speed on Turning Radius*
-Marzan Doyle/Jake Fredrick - Honorable Mention Teams - *Exothermic Reaction Study*
-Jin Rai/Kira Santos/Vy Lam - 3rd place 9th grade Teams - *Effects of Temperature and pH on Enzyme Catalyzed Reactions*

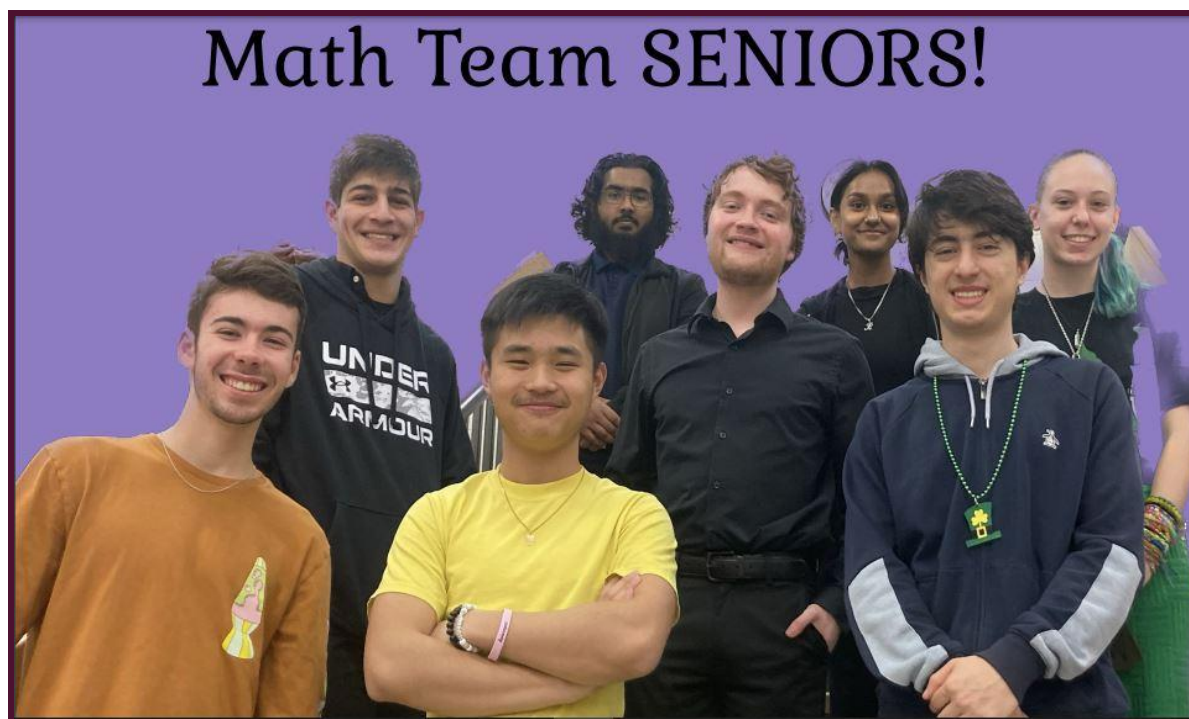


Royal Math Team Winning Season

The UDHS Royal Math team ended their winning spring season with a 26-24 victory against the Bedford High School Bearcats of Bedford, Ohio. Led by senior James Pagan, who started a math competition study group and had a nearly perfect season himself, the team has been steadily improving. Thank you to James and all of our seniors; they have been instrumental in achieving our high scores throughout the season.



The math team celebrates a winning season.



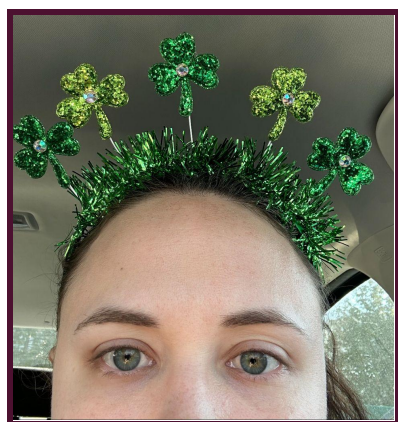
Left to right: Lucas Collins, Ryan Clarici, Steven Tong, Shaikh Ahmed, James Pagan, Aiman Raisa, Adam Hoxhaj, Samantha Lawler

SPECIAL EDUCATION CORNER

In honor of World Down Syndrome Day (March 21), Ms. Nicole Pozzuolo along with Ms. Taylor Goerlach and Mrs. Jessica Conley organized a t-shirt sale to communicate the message "Inclusion Matters." In addition to putting out this important message, the t-shirt sale also was an excellent vocational exercise for students in 18-21 Life Skills and Autistic Support, who made, packaged, and delivered each shirt. The sale (which was not a fundraiser, as the \$10 charge was for materials only), ended up spanning several schools, and 120 total shirts were sold! UDHS participants took a group photo on the



SHOUT OUTS



On St. Patrick's Day, the Special Education Department said farewell and good luck to a special member, Julie Bockman, who is moving to London to teach. Ms. Bockman taught 18-21 Autistic Support, and was always seen laughing and interacting with her students. A frequent "Your pants are on fire" could be heard as students left the PAC to catch their buses. The students never tired of telling her this, and Ms. Bockman always made it seem like it was the first time she had ever heard it.

Ms. Bockman had many accomplishments, but a highlight of her final week at UDHS was when one of her students called her by her name for the first time. It may seem a small feat to some, but to Ms. Bockman the sound was beautiful music.

SAVE THE DATES

Mark your calendars for some big dates coming up in the UDHS social calendar:

March 25–Sophomore Dance

March 28–UDSD School Board Committee Mtg.

March 30–8th Grade Parent Information Night

March 31–College and Career Fair; Sophomore Ring Ceremony

April 3–7–Spring Break

April 10 through April 14–College and Career Week

April 11–School Board Meeting

April 12–Faculty Meeting; 11th Grade College Planning; College and Career Fair

April 14–Speak Up!

April 19–Top Royal

April 20–9th and 10th Grade College Planning Night

April 21–Eid (School closed)

April 22–Freshman Dance



Have a story idea? Please email dzoccola@upperdarby.org.