

At **Harriton High School**, **Laura Labrinakos** and **Su Carter** continue to expand the HARRITON HIGH SCHOOL ART GALLERY with new student displays for three-dimensional artwork.

Sixth, seventh, and eighth grades students at both **Bala Cynwyd** and **Welsh Valley** will have access to The Crossover by Kwame Alexander to complement the author's visit through this ONE BOOK – BOTH MIDDLE SCHOOLS program.

Standing desks will create WORKSPACES THAT WORK at **Welsh Valley** for students of **Lauren Oakes, Caryn Williams, Lauren Lawrence, Deb Kauffman, and Matt Barr**.

Kristen Lawson's kindergarten students at **Belmont Hills** will be able to listen along to the same story with a new LISTENING CENTER.

EMPOWERING STUDENTS THROUGH RUBIK'S CUBES at **Welsh Valley** will allow **Katy Morris'** math students to learn the order of operations and how to use algorithms in a real-world application.

Students at **Harriton High School** will incorporate standing, pacing and other movement into their day by using a standing desk in **Christine Kiley's** SITTING IS THE NEW SMOKING classroom.

Jeff Rhodes' TROUT IN CLASSROOM project will give **Harriton High School** students practical experience and the opportunity to apply science concepts using aquaponics (combining aquaculture and hydroponics) through growing fish and plants in one integrated system.

Gladwyne will create a new GLADWYNE GARDEN under the leadership of **Lori McCrudden** and **Lisa Unger**, exposing students to real-world experience of applying practical applications of science and math while also providing an understanding of giving back to the community and an appreciation and understanding of cooperative learning.

Becky DuVernois will utilize BALANCE BALL CHAIRS TO BALANCE ATTENTION by providing an outlet for physical movement while still being engaged in actively working in their **Welsh Valley** classroom.

Encryption will be brought to life in **Justin Ochiogrosso's** **Harriton High School** classes as students build and use an Enigma Machine through the MATHEMATICAL STUDY OF ENCRYPTION to understand the impact of breaking code during WW2.

Katy Morris will be ENCOURAGING CODING INTEREST WITH NASA INSPIRED CALCULATOR ROBOTS at **Welsh Valley**.

ARDUINO MAKERSPACES at **Belmont Hills** will allow Barbara Johnson's students to create electronic design projects.

Veronica Vladimirova-Cambria's Latin students and Certamen participants at **Harriton High School** will increase their competitiveness through the WHEN ANCIENT LITERATURE COMES ALIVE project.

TEAM BUILDING THROUGH MUSIC – HAND CHIMES CHOIR will enhance **Katy Morris'** FORUM advisory group at **Welsh Valley** by providing students the opportunity to be part of a handchime ensemble to develop team-building and collaboration skills.

Students in **Laura Vogels'** classroom will learn how to “escape the room” with teamwork, problem solving, critical thinking and troubleshooting, using BREAKOUT BOXES for biology, geology, and astronomy at **Harriton High School**.

Cynwyd's OZOBOTS FOR OWLS will give **Shayna Ash's** 3rd grade students hands-on application of robotics and programming to develop sequential thinking, logical reasoning, and coding concepts.

Harriton physics students in **Daniel Imaizumi, Sarah Harvey, and Michael Stoloski's** classes will gain hands-on engineering and design skills with a PHYSICS MAKER SPACE START UP.

Katy Morris and Jason Gagliardi will provide HANDS-ON EXPLORATION OF ALTERNATIVE ENERGY FROM WIND AND SUN in their **Welsh Valley** classrooms, helping students to construct an entire miniature renewable energy system.

Harriton and **Lower Merion High School** students participating in the National Society of Black Engineers' NSBE JR VEX ROBOTICS COMPETITION will build robots and compete at the regional and national level under **Nyanthen Bantoe's** leadership.

Students at **Cynwyd** will have access to are both appropriately leveled and engaging through **Allson Gilboy's** TAKE HOME BOOKS FOR READING SUPPORT STUDENTS project.

New handheld radio devices will improve AVIATION INTEGRATION programs at **Welsh Valley and Harriton High School** as teachers **Michael Sullivan, Jason Gagliardi, Meg Hunt** complement an existing flight simulator for students in grades 8-12.

The TEEN-AGENCY: EMPOWERING YOUNG WRITERS project at **Lower Merion High School** will create a self-publishing station for students in **Brian Mays'** classroom to allow them to engage more fully in the writing process by writing, selecting and publishing their work.

IMPROVING ACADEMIC PERFORMANCE THROUGH ANXIETY REDUCTION is **Kathy Bromley's** goal using music, stress reliever objects, and aquarium in the Wellness Office at **Welsh Valley**.

Jennifer Gilbert at **Gladwyne** will make reading more attractive to boys in the classroom by purchasing BOOKS FOR OUR RELUCTANT BOYS, PART 2, with focus nonfiction and other attractive books to motivate boys to read more and better themselves as readers.

Artwork from **Jackie Cassidy's** **Welsh Valley** students will be spotlighted throughout the school walls as part of a new STUDENT ART GALLERY.

Students in **Nicole Swartley** and **Ian Haines'** emotional support classrooms at **Lower Merion High School** will have expanded resources to practice skills that have been directly instructed in areas of coping, emotional regulation, and self-management.

Kindergarten students at **Gladwyne** will learn HANDWASHING LESSONS with **Maureen AuBuchon** by using Glitterbug Hand Hygiene products that teach good handwashing techniques by putting their hands under a UVA lamp and seeing immediately how well they washed their hands.

Welsh Valley's MIRACLE GROW AEROGARDEN will be enhanced with new bulbs as **Maureen Keeney's** Family and Consumer Science students learn about hydroponic gardening.

Autistic support students in **Jessica Segal's** **Merion** classroom will have the tools to help calm themselves through items designed to create custom comfort zones thanks to the REGULATING OUR SENSES grant.

Penn Valley received an outside BUDDY BENCH so that when a student chooses to sit on the bench during recess, teachers and other students will know that student is looking for a buddy.

Students visiting **Yvette DeVoue's** nurse's office at **Penn Wynne** will feel comfortable in thanks to stress-reducing improvements such as a Beta fish aquarium, stress balls, and a balance ball chair.