



CSH Research Program

ENDLESS POSSIBILITIES TO EXPLORE AND EXCEL

The Cold Spring Harbor Research Program is a testament to the district's commitment to provide students with more challenging research opportunities in the social and

natural sciences. The program offers state-of-the-art research courses in partnership with many prestigious research institutions. Established partnerships include Albert Einstein College of Medicine, Brookhaven National Laboratory, Cold Spring Harbor Laboratory, New York University, Stony Brook University, University of Chicago and University of Texas.

Students have numerous opportunities to develop their research skills and have successfully competed in highly challenging local, regional and national competitions, some by invitation only, including the Junior Science and Humanities Symposium, Long Island Science and Engineering Fair, Long Island Science Congress, Regeneron and Toshiba ExploraVision. Students have also had their science research included in several notable publications.

Foundations of Research

Starting in ninth grade, students begin to develop a better understanding of the trajectory of science courses offered during the next four years. Students explore social and natural science research, evaluate peer-reviewed articles, design a social or natural science experiment, collect and extract data, apply statistical methods to draw conclusions, write a research paper and learn to effectively communicate and participate in competitions.



Advanced Science Research II and Advanced Science Research III

During the next phase of the CSH Science Research Program students in grades 10-12 who possess a deep, committed interest in science research develop their real-world problem-solving skills, are paired with outside professionals through summer research programs and mentorships, focus on a research topic and prepare for local, regional and national competitions.

Independent Research

This course is offered to students who possess a clear vision of their research topic and are ready for independent study. Under the guidance of an outside mentor or teacher, this course includes advanced statistical analysis of data and an extended written literature review of the research topic. Students present and compete in local, regional and national competitions.

Rising students in grades 9-12 can participate in a five-week summer research program in the natural and social sciences. Students must complete 60 hours during one summer to earn 0.5 transcript credit.

AP Capstone Seminar

Starting in the 2023-2024 school year, the district will offer students in grade 10 the AP Capstone Seminar, which will satisfy the English requirement for grade 10 while incorporating literacy learning standards. Students will collaborate on research, present and defend group research, gather information from sources, analyze articles and studies, view issues from multiple perspectives and craft arguments based upon evidence to prepare students for the rigors of college-level work.

For more information about the CSH Research Program visit the district's website at www.csh.k12.ny.us.



Emma Antoniello and Stevie Sullivan, in Foundations of Research class, collected plant data in response to changing environmental conditions.



From left – Lucas Wolf, Milan Lustig and Ryan Smith were selected as recipients of the 2023 sixth annual Mini-Research Grant award from the New York Institute of Technology for their research project, "SMAAC – Simplistic Manipulative Accelerated Airfoil Control."



Seniors Veronica Walkin, Sophie Coben, Jenna Schetty and Madison Brass were published in the National Institutes of Health National Center for Biotechnology Information database for their project on the distribution of mosquito species on Long Island.

A Message from Your Superintendent of Schools Jill M. Gierasch



Recently, our district spearheaded and hosted four full days of unique collaborative learning experiences for AP teachers nationwide. These AP Collegial Circles united 101 teachers from 31 districts on our campus who engaged in productive workshops, fostering open dialogue, collaboration and networking, all with an eye on improving student understanding and achievement. Participants, including veteran and new teachers, shared instructional techniques and best practices, engaged in profound discussions about assessments and worked as a team in creating shared resources. Collegial circles mapped out upcoming units for the fall while others developed future assessment questions. The nine AP courses chosen as the focus of these workshops were: Biology, Calculus, Economics, English Language and Composition, English Literature and Composition, Environmental, Human Geography, Statistics and U.S. History. The district was delighted to host many of our neighboring districts including Half Hollow Hills, Harborfields, Jericho, Locust Valley, Manhasset, Syosset and many others. The knowledge between colleagues was beneficial and extremely well received. Due to the overwhelming positive responses, future workshops will be held early next year.

This initiative demonstrates Cold Spring Harbor's commitment to fostering professional learning opportunities for our staff which translates into more positive outcomes for our students. This can only happen with a committed group of teachers and administrators for which we are grateful. We were thrilled to lead the way in this endeavor and look forward to continuing to support and ignite the passion of our educators.



First District STEAM Night Exceeds Expectations

It was a night to remember as students in grades K-12, joined by their families, participated in the district's first STEAM Night learning extravaganza. Held at Cold Spring Harbor High School, nearly 800 participants attended. The event was created to inspire the students in grades K-8 to unleash and expand their problem-solving, teamwork and creative skills to master the challenging tasks presented.

"Our first STEAM Night was a tremendous success," said Superintendent of Schools Jill M. Gierasch. "All our students were the beneficiaries of an amazing night of learning and comradery, thanks to our Board of Education, CSH Education Foundation, administrators, high school volunteer staff and students and families who made the event so meaningful and memorable."

Using funding provided through a CSH Educational Foundation grant, a task force

including a 19-member district technology committee created a K-12 night of learning. Teachers and high school students taught students who were thoroughly engaged using their imagination and creativity at the individual learning stations, which included chemistry of ice cream, construction of geometric shapes, creativity in art, electric circuitry, First Robotics build and operational use of the Cyberhawks robot, force and angles to project objects, mechanical gears and operations, and so much more!

Many of the supplies purchased through the grant can be reused for future STEAM events as well as in-school technology learning. The concentration and smiles on the faces of younger students as they completed each challenging task confirmed the first STEAM Night was a huge success.



New Course Offerings for 2023-2024

Decisions leading to new course offerings for the 2023-2024 school year evolved through recommendations by teachers and department leaders, conversations between students and teachers, and feedback by parents and guardians through open dialogue at PTG/CPC and Board of Education meetings. All new courses were selected to foster college and career readiness.

Ideal for students who are seeking to pursue a field in mathematics or business. College credit may be earned.

College Business

Math 7: Pre-Algebra I

This rigorous course serves as Math 7 and Math 8 in one year for students who have shown strong preparation to advance in math.

AP Seminar

An option for grade 10 students to explore real-world topics by analyzing different perspectives. AP Seminar can lead to the AP Capstone Diploma.

For students who have completed Algebra and Geometry, this course can provide a bridge to Algebra II by providing the foundation for success.

Intermediate Algebra with Statistics

Ideal for students who wish to further their culinary practices learned in Culinary Arts I with advanced techniques and creative recipes.

Culinary Arts II: MASTER CHEF

Economic Research and Wealth Management

This course is ideal for students who want to gain a strong foundation in economic and investment terminology and processes.

The Learning Is Always Fun at Goosehill Primary School

The 100th day of school is a milestone in the education journey for students. On the 100th day of school, families joined the morning assembly, where students sang songs they had rehearsed for weeks with music teacher Daniel Santangelo. Families also visited the kindergarten classrooms, and the students proudly shared their math skills by completing a special math activity. First grade students joined in the morning parade, showing off their homemade 100th day T-shirts. My, how time flies when you're having fun learning.

First graders have been taking excellent care of their classroom turtles but were curious to know what will happen when they are released. Cold Spring Harbor Fish Hatchery educator Krissy Forman visited Goosehill with a cooler of turtles and frogs to answer a barrage of questions and allay any concerns the students might have. The students learned their red-bellied turtles know how to find water and food, and how to protect themselves from predators. They also learned about the full amphibian life cycle of frogs. They learned these changes are called metamorphosis for these amphibians. The students in Ms. McDonald's and Ms.

Gonzalez-Condell's classes had one more question. They asked to have another turtle so their turtle would have a friend.

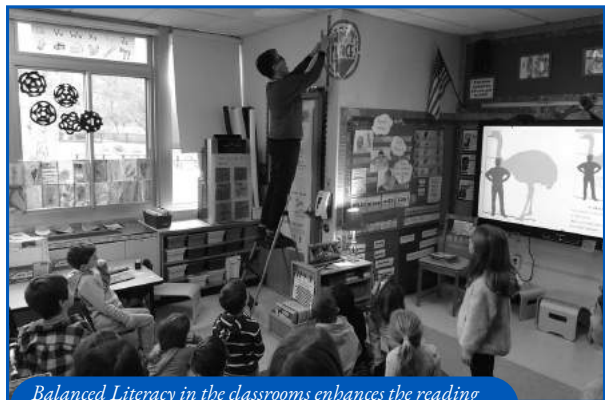
Creativity is encouraged and knows no limits in art classes. The district welcomed new art teacher Katrina Albanese, who has brought innovative ideas, energy and imagination into her art classes. A clever art project involved celebrating visiting author/astronaut Nicole Stott, who is this year's guest speaker at the annual District Literary Luncheon. Astronaut Stott spent more than 100 days aboard the International Space Station, had a 28-year career with NASA and founded the Space for Art Foundation. Students created fabulous space art masterpieces as they learned more about adventures in space.

Professional development in Balanced Literacy has been implemented to enhance the reading and writing curriculum. The components of the Balanced Literacy framework have been embedded into classroom instruction, including daily read alouds, guided reading, interactive writing, reading workshop, shared reading, shared writing and writing workshop. The district uses Foundations for phonics instruction, Heggerty for phonemic awareness instruction and Responsive Classroom as an SEL (social and emotional learning) approach.

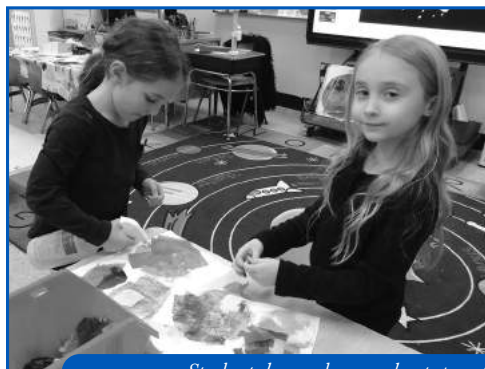
"It is always a favorite part of my day when I am able to observe teachers and students sharing best instructional practices together," said Principal Christina Cosme. The atmosphere in the classrooms is always exciting as students discover the wonders of the world through reading and deep inquiry.



Celebrating the 100th day of school.



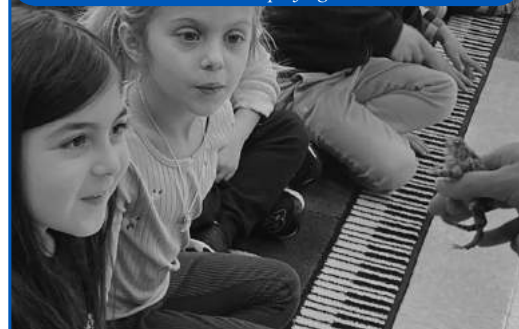
Balanced Literacy in the classrooms enhances the reading and writing curriculum.



Students learned more about space through an innovative space art project.



Cold Spring Harbor Fish Hatchery educator Krissy Forman shared information with students about their classroom pet frogs.





The National Blue Ribbon School of Excellence celebration continues.



The Cheerleaders Club shows their school spirit.



The Newspaper Club publication is filled with interesting stories and photos.

Celebrating National Blue Ribbon Recognition at Lloyd Harbor Elementary School

When a school receives the coveted recognition as a National Blue Ribbon School of Excellence, celebrations ensue. Following a rigorous application process and highly competitive selection process, Lloyd Harbor School was chosen as one of only seven schools in New York State out of 3,500 and the only elementary school out of four Long Island schools for this distinction. The entire student body, wearing blue shirts, danced into the gymnasium to enjoy music, cheerleaders, Blue Ribbon Band performances and speeches. A special video created by technology teacher Margaret Diehl shared the visit to Washington, D.C., for the official award ceremony. The video's surprise ending showcased each class decorating Blue Ribbon bulletin boards with personalized messages about why they loved their school and touching messages from the staff.

Morning and afternoon clubs have been

expanded thanks to the PTG who have helped to bring them back in a new way. Teachers and staff serve as the advisers and provide students with fun-filled, enriching activities in a collaborative environment, such as an early morning Move and Munch where students walked the track followed by breakfast and hot cocoa. Other clubs include Bling It On, Campfire Games, Cheerleading Club, DIY Diamond Art, LEGOS, Music Makers, Newspaper Club, Robotics, Sewing, Sports Club and more.

As part of the school's literacy instruction, third and fifth graders are using their information writing skills to develop and publish pieces that focus on topics relevant to Lloyd Harbor School. Persuade Me was the challenge for third graders to support bold and brave opinions through speeches, petitions and editorials. These argument writings very often come to fruition to the delight of the students. Fifth grade literacy takes

a different approach with a different challenge, Breaking News. In this unit on journalism, students familiarize themselves with how to write news reports and feature articles incorporating analytical and critical thinking skills, as well as speaking and listening skills. The challenge was to identify and celebrate various aspects of school that might not normally be shared. The young writers published their pieces in The Lloyd Harbor Ink to share with classmates.

Sixth grade social studies classes delved into the River Valley Civilization, each researching a topic about ancient Egypt, such as burial sites, mummification, cartouche scrolls, foods and the usage of canopic jars. Students created replicas of their chosen topics, essays and Google Slide presentations. Parents attended the big reveal in the Little Theater. The younger students also enjoyed the exhibits.



Third grade students wrote argument essays to support their research-based opinions.



Fifth grade students shared "Breaking News" in a journalism unit with their peers.



Sixth grade students brought ancient Egypt to life with their research projects.



Students begin every day with a morning assembly that inspires self-esteem and confidence to achieve success.



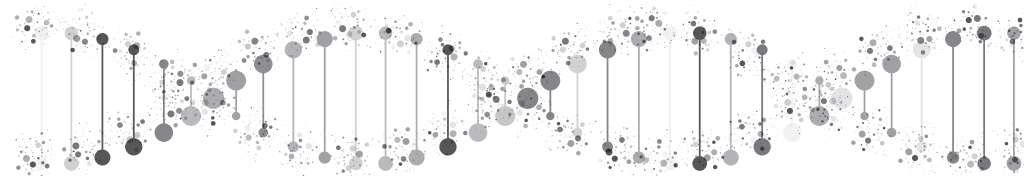
Students are motivated to have a successful day during morning assemblies.



Students enhance their problem-solving skills by participating in Math Olympiads.



Students thoroughly enjoy field trips to the DNA Learning Center.



Building the Foundation for Success at West Side Elementary School

One of the special qualities of a small school is the tradition of gathering each morning before homeroom for morning assemblies in the Ted Hilton gymnasium. This year, Principal Dr. John Barnes has taken the assemblies to a higher level. Each day, students sing a song aligned with a monthly theme from a newly created West Side songbook and learn historical, day-in-history facts and trivia. Educational videos and words of inspiration promote self-esteem and success. Dr. Barnes' affirmations close out each morning assembly with students joining in, reciting, "I am kind, I am smart, I am brave, I am confident, I am loved, I am capable, I am grateful, I am enough."

Math Olympiads is back for students in grades 4-6, and the students love solving the problems of the week and monthly challenges. Math Olympiads results are now showcased during daily assemblies to celebrate progress and encourage increased participation.

"We want students to see themselves as problem-solvers and mathematicians," fifth grade teacher Kerry Markin said. "Watching students collaborate and

challenge each other is a joy to witness."

Since music organizes the brain and aids memorization, music teacher Leah Martin integrates her music lessons with the corresponding academic curriculum. Using original tunes arranged to familiar songs, third and fourth graders practice their multiplication tables in a fun and memorable way.

Throughout the school year, West Side and Lloyd Harbor elementary schools collaborate with the DNA Learning Center. DNALC educators visit sixth grade science classrooms to perform various experiments to enhance the curriculum. Another highlight of this partnership is the sixth grade field trips to the DNALC. While on a field trip, students studied the diversity of life found in animals, plants, fungi, protists and Monera taught by a DNALC educator. Using special microscope magnification, students were challenged to find, observe and chart certain characteristics. The students also studied Otzi the Iceman, a 5,000-year-old mummified man, to learn more about DNA.



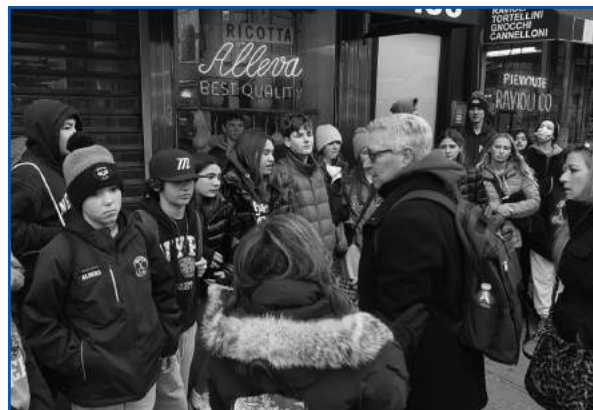
DNA Learning Center educators work with sixth grade students to enhance the science curriculum.



Music lessons bring the academic curriculum to life using original tunes everyone loves to sing.



The Cyberhawks Team 2875 shared strategies about building a robot that could meet the challenge of the 2023 FIRST Robotics Global competition.



Students stopped at the famous Alleva Dairy in Little Italy, America's oldest cheese shop established in 1892.

Creating Future Leaders and Role Models AT COLD SPRING HARBOR JR./SR. HIGH SCHOOL

For many years, the junior high school social studies students have visited the Tenement Museum on Manhattan's Lower East Side, former home to nearly 7,000 working-class immigrants in 1863. The field trip was an immersive experience into the lives of immigrants as the students visited the museum and other historical locations, including City Hall, Chinatown, Little Italy, Tweed Courthouse, the Woolworth Building, and the famous Alleva Dairy, America's oldest cheese shop, established in 1892.

Throughout the world, kickoff kits were opened, and the game challenge was revealed for the 2023 FIRST Robotics Global competition! The CSH Cyberhawks Team 2875, along with more than 3,200 teams worldwide, gathered to watch the live kickoff broadcast. The 2023 FIRST Challenge is entitled Charged Up presented by Haas. This year, the "Energize" theme for the game focuses on energy and sustainable development. After the kits were opened, think tank stations with multiple Promethean

Boards were set up in the new gym where groups of students collectively shared strategies about building a robot that could meet this year's challenge. The rollout involves not only coding and engineering skills, but also creative design, business and marketing skills. Robotics adviser and physics teacher Jim Hardy, community members Stephen Jay and Hans Nordemann and alumni students Michael McCoy, Doon Nordeman and Lily Terry are working with the team to make this a great season. Members have been learning skills including apparel design, coding, electrical systems, fundraising, machining, pneumatics, safety and much more.

After weeks of memorizing lines, rehearsing choreography, building sets and practicing the music, the stage came alive as the drama club presented the musical "Chicago (Teen Edition)." The actors and musicians showcased their extraordinary talents and

delivered a performance to rival Broadway. The cast performed several amazing numbers including "All That Jazz," "Cell Block Tango" and "Razzle Dazzle," and the audience responded with standing ovations. The talented cast and crew under the guidance of director Melissa McLees and teachers and staff made this truly a night to remember. Special congratulations to the senior members of the cast who have shared their talents and commitment to the arts.



Cyberhawks Team 2875 attended the kickoff event for the 2023 FIRST Robotics Global competition.



It was an event to remember as students performed "Chicago (Teen Edition)."



The student performance of (Chicago (Teen Edition)), "rivalled Broadway."

MUSIC AND ART PROGRAMS INSPIRE AN APPRECIATION OF THE ARTS

Exposing students at an early age to music and the arts to cultivate a lifelong appreciation is an important component of the district's philosophy of educating the whole child. In 2022 Cold Spring Harbor was awarded the highly selective Best Communities for Music Education award by the National Association of Music Merchants Foundation.

K-12 Music Program Highlights

Under the guidance of Music Department Chairperson Brent Chiarello, the music curriculum for grades K-12 offers course selections that are second to none. There are numerous opportunities for students to showcase their talents under the tutelage of an extraordinarily talented staff, many of whom continue to perform at notable venues.

At the elementary level, third grade students participate in instrumental exploratory, a unique one-of-a-kind program on Long Island started 30 years ago. Through this yearlong study, students explore all instruments including brass, percussion, string and woodwind to experience the different instruments and determine which instrument best fits the student's interest and skill sets. In grades 4-6, weekly lessons and group instruction begin to prepare students to participate in All-County, Long Island String Festival Association and New York State School Music Association competitions.

Elementary theater has also been a long-standing tradition for students in grades 5-6 where students develop their musical and creative talents and experience performing in front of an audience. Students in grades 4-12 perform in winter and spring concerts attended by families and community members. During the holidays, students also perform throughout the community.

In addition to music lessons which are part of the curriculum, students pursuing music at Cold Spring Harbor Jr./Sr. High School can participate in chamber choir, chamber orchestra, chorus, concert band, orchestra, wind ensemble and extracurricular clubs such as brass ensemble, chamber singers, jazz band, pep-band, pit orchestra, symphony orchestra and myriad theater productions.

The music program also offers students the opportunity to be inducted into two honor societies, Tri-M Music Honor Society and Thespian Honor Society. Students can apply and audition to be awarded distinctions such as All-County, All-Eastern, All-State, All-National, Huntington TONY theater awards, Long Island Arts Alliance Scholar-Artist and Long Island String Festival Association.

This year, the district is proud to have more than 70 students selected for All-County, three

All-State students, an All-Eastern and an All-National student as well as a Scholar-Artist in the area of theater. It is the sincere hope that CSH will continue to receive this award designation on an annual basis

K-12 Art Program Highlights

The philosophy of the art department is consistent with the district's philosophy fostering the development of aesthetic appreciation, providing humanizing experiences and enabling students to live in harmony with themselves.

Under the guidance of Art Department Chairperson Christine Oswald, the K-12 art curriculum enables students to learn to express their individual creative talents. Year-round, the walls in the district office and elementary schools provide a walking art tour under the creative guidance of amazing teachers. Many of the elementary art projects are cross-collaborations with other units, combining learning across the curriculum.

In conjunction with STEAM coursework students in grades 7-8 work collaboratively with art through STEAM projects as they rotate and build upon assignments incorporating family and consumer science, science, technology, engineering, art and math. These projects engage in building skills, collaboration, creativity and real-world problem-solving, with a focus on invention through hands-on, project-based experience.

The Jr./Sr. High School students expand their artistic talents and appreciation for the arts in myriad course selections, including four challenging Advanced Placement courses. Additional course options include digital imaging, drawing and painting, fashion design, film, graphic design, media arts, studio art, and television production and broadcasting. The school's Gottshalk Gallery hosts art exhibitions that rotate throughout the year, including exhibits of AP senior portfolios that accompany concerts in the PAC lobby. K-12 art exhibits are also held annually at the CSH Public Library. Each school hosts a year-end art exhibit to celebrate the work of the students, along with the annual "Night of the Living Museum" showcase event which includes a runway fashion show and hands-on creative stations that model and inspire younger students and the community.

The pursuit of visual art culminates in recognition at the National Art Honor Society induction ceremony, as well as designations in All-County, Colors of LI, Huntington Arts Council Exhibit and Merit Scholarships, Long Island's Best: Young Artists at The Heckscher Museum of Art, Scholar Artist, STEAM Fairs and Tulip Festival.



Music lessons at Goosebill Primary School.



West Side Elementary School band practice.



Lloyd Harbor production of "Little Mermaid."



Junior High School concert.



High School concert choir.

**COLD SPRING HARBOR
CENTRAL SCHOOL DISTRICT**

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*Varsity soccer coach
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*Varsity tennis coach
Melissa McLees.*



*Varsity swimming
coach Gary Renart.*

Three Recognitions for CSH Outstanding Coaches

For three coaches to be recognized with the Coach of the Year award is an extraordinary accomplishment.

The Nassau County Boys' Soccer Coaches Association has selected physical education teacher Christian Lynch, who has coached soccer for 12 years and has been head coach for the past three years, as Coach of the Year. Mr. Lynch has been teaching in the district for 13 years.

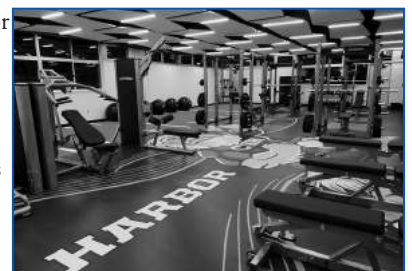
Tennis coach Melissa McLees received the Coach of the Year award from the Nassau County Girls' Tennis Coaches Association, honoring a 27-year coaching career, 17 of which have been with the district.

Swimming coach Gary Renart was awarded the Coach of the Year by the Nassau County Girls' Swimming and Diving Coaches Association. Mr. Renart has been teaching in the district for 21 years. Congratulations to these amazing coaches who serve as role models for students and athletes.

New Fitness Center Supports Healthy Bodies, Healthy Minds

When the doors opened for the official ribbon cutting ceremony of the new fitness center, it was all that was promised and more. The Board of Education and Superintendent of Schools Jill M. Gierasch expressed their gratitude to all who made this vision a reality. The Seahawks Athletic Booster Club helped to finance the state-of-the-art equipment and special flooring through fundraising totaling approximately \$250,000. The remaining cost of the renovations were funded through the 2019 community approved bond. The new fitness center gleams with state-of-the-art equipment, an interior turf, high-tech ceiling and lighting, and vibrant Neoflex Performance flooring featuring the Seahawks mascot. There are also QR codes on the equipment for instant tutorials.

Director of Physical Education, Health and Athletics Michael Bongino said, "The completion of this project was due to the generosity of this community, the vision and commitment of the Seahawks Athletic Booster Club, the dedication of the Board of Education and administrative team, and district architect John Grillo and community member Don Saladino. This new facility will benefit students for years to come." Staff and coaches were trained on the use and safety of the equipment. The new fitness center will be utilized for health and physical education classes during the school day and open for students and team training after school.



Parent University Focuses on Topics of Interest

Under the guidance of Assistant Superintendent of Curriculum and Instruction Genevieve LaGatutta assisted by interns Marc Beja and Kristen Wilkens, the administration and staff conducted a Parent University, an information night for parents and guardians.

Keynote speaker Dr. Stephen Dewey delivered a powerful presentation on the impact of addictions on the adolescent brain. Presentations by district staff focused on K-12 topics parents expressed an interest in learning more about, including academic expectations in particular content areas, stress triggers and management, and more.

