



CLEVELAND CITY SCHOOLS CAREER & TECHNICAL EDUCATION

May 2021

NEWSLETTER

A Look Back at the 2020-2021 School Year

This past year has been a very challenging one for all of us. Challenging times, however, often bring out our core strengths. Our people responded to the challenges with vigor and humanity, set aside whatever differences we may have and worked as a team to not only sustain our academic operations and programs, but also continue to drive our innovation and growth. As we end our year, our staff has been reflecting together on our successes and celebrations. We would like to share and celebrate our achievements with you:



- Cleveland Utilities named as Cleveland High School's first CAPS (Center for Advanced Professional Studies) partnership. Cleveland High School is in the process of adding two more CAPS partnerships. These partnerships give students a tremendous opportunity to be fully immersed in a professional culture, solving real world problems and use industry standard tools, all while being mentored by actual employers. CAPS is an example of how business, community and public education can partner to produce personalized learning experiences.
- 19 students received their Patient Care Technician certification. This was the first year this certification was offered to Cleveland High School students and had a 93% pass rate.
- 7 students received their EKG Certification.
- 9 Cleveland Middle School students received Dual Credit in Computer Applications.
- 156 Cleveland High School students earned Dual Credit and 63 students earned Dual Enrollment.
- 22 students earned Industry Certifications.
- Cadet Kendra Edwards was recognized after receiving an AFJROTC J-100 Character-in-Leadership scholarship, a full 4-year ROTC scholarship that includes room and board to her choice of select colleges and universities across the country.
- Cleveland City Schools Career and Technical Education received multiple grants equaling over \$186K. This includes Carl Perkins Funding, Perkins Reserve Grant, multiple Bradley County Public Education Foundation Grants, CARES Act Grant, TSIN, EPIC Grant and PNG Grant.
- Cleveland Business Academy re-opened the Raider Trader. The Raider Trader is a student-led school store selling cookies and school apparel. In addition to re-opening, the store was completely remodeled. The remodel was also student-led.
- Expanded the STEMulation Lab located in the library at Cleveland High School. More technology was added to the lab to create more opportunities for teachers and students.
- Started funding STEM courses at all seven elementary schools as a part of Career Awareness.

In closing, we want to reiterate our gratitude for your continued support.

To learn more about CTE, follow us on Twitter [@ccscte](https://twitter.com/ccscte), or visit our website www.clevelandschools.org.



Arnold Elementary School

First grade learned about animals and the reasons they use camouflage. Organisms use camouflage to mask their location, identity and movement. This allows prey to avoid predators, and for predators to sneak up on prey.



Bylthe-Bower Elementary

The 3rd grade worked on Engineered Irrigation: Moving of a Vital Resource. This lesson explores how civil engineering has solved the challenge of moving water using irrigation. Students worked in teams to design and build their own “irrigation system” out of everyday items.



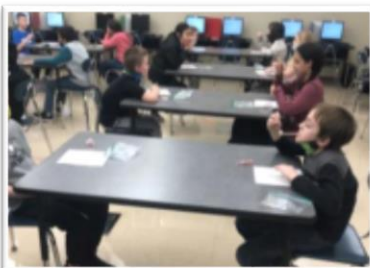
Candy's Creek Cherokee Elementary School

K-5 students at CCCES have been learning how energy is made, how it travels to our homes and how they can conserve energy at home. Thanks to TVA and Cleveland Utilities for partnering with us and bringing this workshop to our students!



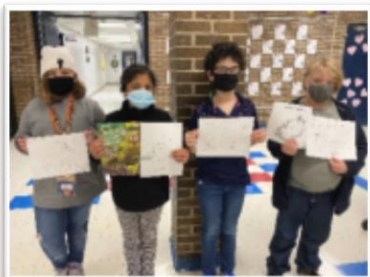
George R. Stuart Elementary

At Stuart Elementary, students in fourth and fifth grade are working through a process to complete a narrated video. This process involves creating a video that contains text, images, and audio narration using an online video editing tool.



Mayfield Elementary

Fourth grade students learn data entry with “Smarties Candy Challenge.” They have five chances to stack as many Smarties as they can on their popsicle stick in 60 seconds, then record their data in Google Sheets. They found the Mean, Median and Mode, put the amounts in least to greatest, then wrote a reflection.



Ross Elementary

In Library class, Ross students read about the endangered Kakapo bird and how scientists relocated them to a safer habitat. They then used the Engineering Design Cycle to design a safe trap specific to the Kakapo.



Yates Primary

Students at Yates Primary learned about the forces involved to launch a rocket. They created their own straw rockets while experimenting on ways to modify their rocket to make it travel farther!

CMS BUSINESS



Practicing Coding Skills

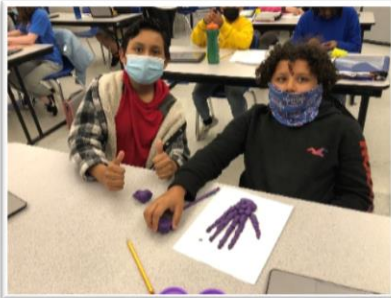
CMS Business Communications students are practicing coding skills. They learn vital building blocks that lead them to produce a final coding project to share with classmates. Students are doing a great job learning the basics of this growing career field.



6th Grade Night

Upcoming 6th graders got to see what CMS CTE has to offer at the CMS Open House.

CMS MEDICAL SCIENCE



Clay Models

Medical science students learning about the skeletal system and using clay to make models of the hand!



Learning Proper Spine Boarding

Medical Science students were introduced to proper spine boarding techniques. Spine boarding is a technique that is used to transport an athlete for emergency care whenever a cervical spine injury is suspected.

CMS ENGINEERING



Flight Simulator

Students get to spend some time on the flight simulator! What is a flight simulator? A flight simulator artificially simulates aircraft flight in various environments and conditions.



Off the Grid!

Throughout the world, people are working to become more self-sustaining when it comes to landscaping and architectural design. For this project, students conduct research on a sustainable architectural design for a home in a country of the student's choosing.



Engine Replacement

CHS automotive seniors removed the old engine from the CHS practice car and installed the new one in three days.



Changing Bad Studs

CHS advanced automotive students changed the bad studs on a practice car. The practice car is used to teach entry level students how to remove, rotate & replace wheels. These studs get damaged, therefore the advanced students also get a learning experience too.



Learning Team Work and Communication

Entry Level Automotive students (grades 9-11) perform team work/communication exercises.



Aviation 3 Students Say Thanks

Aviation 3 class wanted to say thanks to an amazing CTE Director, Renny Whittenbarger. We appreciate all that you do to bring amazing equipment to the classroom and providing amazing opportunities for us to learn.



Thankful for a Great Year

Looking back on this past year, the aviation students of CHS have a lot to thankful for. We received a grant that allowed us to purchase two new Redbird TD2 trainers. Plus, we had lots of students present and ready to learn and seniors making plans for the future.



Pursing Private Pilots License

CHS Aviation has two students actively pursuing their private pilot training.



Business Moves to Digital Media Hex

CHS Business Academy is growing and excited about the move next door to the Digital Media Academy.



Raider Trader is Ready for Business

The Raider Trader is ready for the 2021-2022 school year. The Business Department spent the spring semester preparing their new storefront in Cleveland High School.



The Business Academy to Become The Business Marketing Academy

Starting in fall 2021, CHS will now offer Business Marketing. Introduction to Business and Marketing is an introductory course designed to give students an overview of business management and administration, marketing, and finance career clusters.



Student Learn About Face Shapes

Students are learning about face shapes to be able to recommend hairstyles, makeup and accessories for clients.



Students Learn All Waxing

Students practice hair removal with soft wax. Soft wax is applied with a waxing spatula before being removed using a muslin strip.



Foil Highlighting

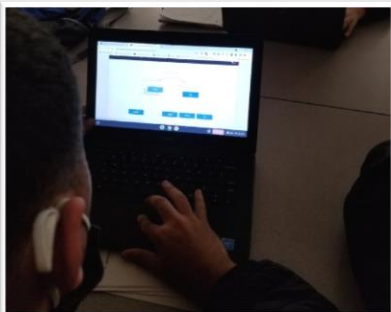
Students learn all about foil highlighting. Foil highlights, also called "foiling," is a coloring process wherein sheets of foil are used to separate strands of hair—thick or thin, depending on preference. These strands of hair are covered with a color or lightener before wrapping them in foil to process.

CRIMINAL JUSTICE



Students Take Dual Credit Exam

CHS Criminal Justice students take the Dual Credit exam. Dual Credit is an opportunity for students to earn college credits while still in high school. These classes are rigorous, meeting college-level learning objectives and giving students a chance to shorten their tenure in college by earning credit hours for Cleveland State Community College before they even enroll!



You Science

CHS Criminal Justice students work on You Science, a program to help them make choices in their future careers.



Mrs. Morgan says Goodbye to Seniors

CHS Criminal Justice says goodbye to seniors. They are ready for the world!

CULINARY ARTS



Culinary Arts Students Serve at Prom

Culinary students attend the prom and also showed off their culinary creations at the prom. The Raider Cafe prepared the food for the prom.



Raider Café Closes for Summer

It is that time of year to close down the Raider Cafe kitchen. Yasmin and Ciara are scrubbing the kitchen floor as it is one of the many details of the break down of the kitchen.



Chef Rush's Demonstration on Cookies

Raider Cafe students learn from Chef Rush's demo on chocolate oatmeal no bake cookies. They learn how to set up, cook, and how the cookies retain their shape with no flour.



Students Watch Last Days Documentary

Students watched the Last Days documentary, learning about the stuxnet virus. Stuxnet is a malicious computer worm first uncovered in 2010 and thought to have been in development since at least 2005. Stuxnet targets supervisory control and data acquisition (SCADA) systems and is believed to be responsible for causing substantial damage to the nuclear program of Iran.



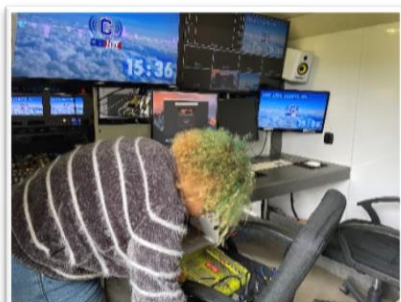
Web Design

Are you a student interested in graphic design? These drawing/writing tablets will be used in web design classes to give students the ability to put their work directly into their websites. This will be a great technology tool for students to learn!



Dr. Saez Encourages Students

Dr. Saez made mini AP survival treat bags for her students in Computer Science AP to prepare for the big end of course exam.



CHSLive Students Clean up the Mobile Unit

CHSLive students and instructor, Dale Halfacre, cleaned up the mobile unit to prepare for graduation. The mobile unit allows students to stream productions live in the field.



CHS Pets

If you are around Cleveland High School campus, you will know we share our fields with the geese. They joined CHSLive while setting up for graduation.



CHSLive Streams for Graduation Live

CHSLive streamed the 2021 Commencement Ceremony live allowing families all over the world to join us in celebrating the graduates.



@BLUERAIDERSLIVE



@CHSLIVE



CHSLIVE



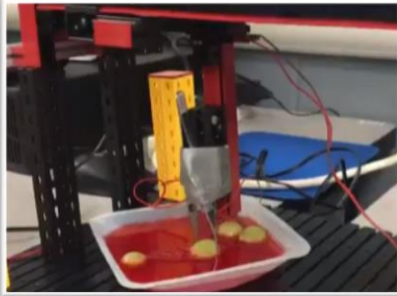
CHSLIVE

ENGINEERING



Mr. Gluckner Visits CMS

Mr. Gluckner had a great opportunity to visit Cleveland Middle School and promote the engineering program to upcoming freshmen. Looks like they're going to have some fun in the fall!



Biomedical Engineering

Students successfully remove their simulated tumor with a robotic device.



Plumbing and Electrical Skills

Architecture students learn some final real world plumbing and electrical skills in their last weeks.

HEALTH SCIENCE



Delivery Babies

EMS loves delivering babies! Students get hands-on experience with one of the most stressful, emotional, and eventful calls they experience: emergency birth in the field. Students perform resuscitative measures for high risk emergent deliveries.



Teacher Massages

Sports Med & Rehabilitation students and rehab offered our teachers some relaxation for Teacher Appreciation Week with massages and paraffin wax treatments.



Real-World Learning Through Simulation

Health Science classes working together to take care of patients during a mock simulation. Students collaborate to respond to life-like scenarios, try on different hats, and become better health care team members.



Capstone Projects

For the past six weeks, Robotics 4 students have been working on a Capstone Project. Students were challenged to create, research, document and present their project. Check out this self propelled steam engine built by Gerardo Cardoso Bocanegra. Awesome Work, Gerardo!



Creating an Electric Wheelchair

Another Capstone project, Ethan Herndon is converting a wheelchair into an electric wheelchair. Great job, Ethan!



Student Spotlight

Robotics would like to do a Student Highlight on Mr. Kael Kinney. Mr. Kinney has been a huge asset to the Robotics program. We would also like to congratulate him on becoming a Raider Scholar and being admitted to John Hopkins. Great work, Kael!



Teaching Drill for the Last Time

Blue Raider Corps seniors taught drill for the last time. Drill teaches precision, discipline, and leadership to the cadets involved.



Class of 2021

After Raider Walk a few seniors came back to join a final round of dodgeball. Faithful to the Blue Raider Corps—we love you, class of 2021. You will be missed!



Becoming Leaders

First week of the SY marching drill without JROTC experienced seniors. This team will lead us through the Air Force inspection in November. Phenomenal job stepping up to the leadership challenge.



Ann Krepps, Health Science Academy Instructor

Ann Krepps is currently in her first year of teaching at Cleveland High School. She comes to us from a 21 year career as a registered pharmacist. She received her degree from Ohio Northern University in Ada, Ohio, in 2000. Ann has spent time working in retail pharmacy, long term care, and most recently Hospice.

Ann currently teaches Health Science and Pharmacy in our Health Science Academy.



Leia Talley, Health Science Academy Instructor

Leia Talley has been a registered nurse for 14 years. Mrs. Talley has a nursing background in Medical Intensive Care, Emergency Care, and as a college clinical educator with Dalton State College. Mrs. Talley entered Cleveland City Schools as a school nurse at Arnold Elementary. She has been teaching with

Cleveland High School for six years and currently teaches Emergency Medical Services, Health Science, and Freshmen Experience/Leadworthy 1. She partners with Cleveland State Community College to co-teach a dual enrollment EMS program in which students may obtain their Emergency Medical Responder Certification.



Jonathan Bovee, CMS Medical Science Academy Instructor

Jonathan is a 2017 graduate of Charleston Southern University in Charleston, SC, where he received his Bachelors of Science in Athletic Training. He has been a certified and licensed athletic trainer for the last four years. He immediately entered the athletic training field starting his career at Benchmark Physical

Therapy in Cleveland, Tennessee. There he was contracted to Cleveland State Community College as the head athletic trainer working with basketball, baseball, softball, and XC. Along with his responsibilities as athletic trainer, Jon was adjunct faculty with the school helping to teach the course Care and Prevention of Athletic Injury. In the summer of 2020, Jon made a career adjustment when he stepped into the full time world of education. Jon has now completed his first year as a teacher at Cleveland Middle School sharing his knowledge through the school's Medical Science classes. He also serves as the head athletic trainer after school caring for the school's 22 teams and 500+ athletes.

Center for Advanced Professional Studies (CAPS) programs are nationally recognized, innovative high school programs. Cleveland City Schools students fast forward into their future and are fully immersed in a professional culture, solving real world problems, using industry standard tools and are mentored by actual employers, all while receiving high school and college credit. CAPS is an example of how business, community and public education can partner to produce personalized learning experiences that educate the workforce of tomorrow, especially in high skill, high demand jobs.

Cleveland City Schools is developing relationships with business, industry and higher education partners which is critical to the success of Cleveland City Schools CAPS program. The CAPS Network is designed to create rich and meaningful experiences for students, as well as partners. Programs that partner with the CAPS Network share best practices and connections with professional partners, post-secondary institutions and students.



PORTRAIT OF A GRADUATE

PREPARING STUDENTS TO BE COLLEGE, CAREER, AND LIFE READY

COMMUNICATION

- Clearly exchange information through varied modes of communication (oral, written, visual, and/or performance)
- Utilize technology and media effectively
- Engage others through active listening and informed, logical responses
- Use effective interpersonal skills

COLLABORATION

- Work cooperatively with team members to achieve a goal
- Value diverse viewpoints and demonstrate flexibility
- Share success through affirmation and accountability
- Build positive relationships

CREATIVITY

- Create, develop, refine, and implement innovative ideas
- Understand there are often multiple ways to solve a problem
- Form original ideas in response to feedback, setbacks, and failures
- Express curiosity and inquiry in pursuit of solutions

CRITICAL THINKING

- Assess and analyze relevant information to find solutions to problems
- Make sound judgments and wise decisions
- Reflect and reason
- Understand “bigger picture” issues, then collect and connect details to reach solutions

CHARACTER

- Exhibit moral and ethical integrity
- Model respectful and responsible behaviors
- Be community-minded and civic-minded by showing empathy, compassion, and kindness
- Demonstrate self-motivation, discipline, and a strong work ethic



A Message From The CTE Supervisor

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May 31, 2021

Why Career and Technical Education (CTE)? Looking back on the 2020/2021 school year, I am amazed at what our CTE teachers and students accomplished. COVID threw us a curveball, but CTE teachers and students knocked it out of the park. During the 2020/2021 school year, 156 Cleveland City Schools CTE students earned dual credit, 67 CTE students earned dual enrollment, and 22 CTE students earned industry certification. This was accomplished above and beyond their daily CTE classroom requirements. Even with all the COVID distractions, CTE teachers and students remained focused, engaged, and committed in order to make sure they are ready for the next level.

One of the goals of CTE is to give students the skills and tools to break-down a problem through the design thinking process and come up with a solution, which was evident in their accomplishments.

Thank you for a great year and we look forward seeing you in August.

Sincerely,

Renny Whittenbarger



Connect with us!

Join us on social media and stay up to date on many of the great things happening here everyday.



@ccscte



@ccscte

Important Dates

August 3

Students Return
Abbreviated Day

