



CLEVELAND CITY SCHOOLS CAREER & TECHNICAL EDUCATION

March 2022

NEWSLETTER

Career and Technical Education in Elementary Schools

What do you want to be when you grow up? Ask any child that question and you are bound to get a myriad of responses that range from firefighter to teacher to astronaut. And why not? Childhood is a time of wonder, imagination and discovery, making this an excellent time to begin supporting career awareness through self-awareness.

Career Awareness is a recommended stage in the career development process for elementary level students. The focus of Career Awareness is to introduce K-5 students to the many types of careers that exist, different working environments, foster a positive attitude toward work and to help students understand the connection between academics and their future career. Career Awareness also introduces the idea that a career is more than a job. Career Awareness is usually taught through teacher guided lessons, classroom or school speakers and activities where students can learn more about different types of tasks related to careers and expand their knowledge of different types of occupations.

The reasons for early exposure are: a child with early diverse career exposure will have a better understanding of career paths; the child will become more confident with their career choice by high school; and, parents will be able to accurately navigate their child's career path before college entry.



Another reason for early exposure is to offset the national student loan crisis and the college graduate underemployment problem. Many students who graduate from college do not have a clear direction or understanding of the current job market. There are college graduates that are saddled with over six figures of student loan debt and are struggling with making the monthly payments. If a child is exposed to STEM or trade careers at an early age, the uncertainty of career direction and development will not be an issue by college graduation. Incorporating science into elementary schools will not only be an asset to our economy, but it will benefit our society as a whole. A more educated and skilled society is competitive, economically feasible and beneficial for future generations.

Cleveland City Schools Career and Technical Education in our seven elementary schools helps students build an understanding of the full landscape of careers by providing experiences that expose students to a variety of occupations.



Arnold Elementary School

During the week of St. Patrick's Day, second graders learned about different types of bridges, tension, compression, and measuring weight, balance and stability. They used the engineering design process to construct rainbow bridges that would keep the leprechaun's pot of gold out of reach.



Blythe-Bower Elementary

Third graders used the Bobcat Steps for design thinking to create a space capsule and ensure that it could make a safe landing.



Candy's Creek Cherokee Elementary School

Second grade students coding Bee-Bots for the first time.



E.L. Ross Elementary

Fifth graders programmed Edison robots for different tasks including a clap controlled race and Sumo wrestling.



George R. Stuart Elementary

Students at Stuart celebrated March Madness by working collaboratively to create a basketball hoop and catapult. Students used the design process and planned together as one large group and then two smaller groups in order to build two working devices.



Mayfield Elementary

Fifth graders have been exploring the field of mechanical engineering. They used the engineering design process to build rubber band racers. They had to learn the importance of the chassis, how to keep their car symmetrical and have weight distribution to help their car roll correctly.



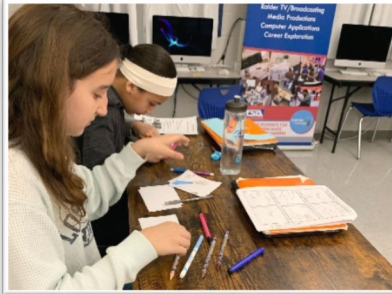
Yates Primary

Students at Yates Primary learned about March Madness and tried out their design skills by making their own basketball goals and ball launchers.



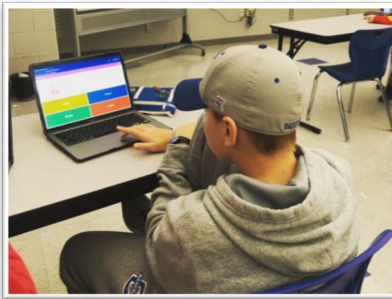
Students Complete Their Second College Exam

Eighth grade Broadcasting students had an opportunity to learn more about the Digital Media Program at CHS. They loved meeting and talking with the current students and teacher!



TSA competition

CMS Businesses Communications students are participating in an in class TSA competition! This national student organization creates competitive events that allow students to learn through these unique experiences.



Making Learning Fun

CMS Medical Science Students battle it out on Blooket.com! What an awesome way to make learning fun!



Mock Interviews

On March 23, eighth grade students participated in mock interviews. Leaders from our community took time to come to Cleveland Middle School and conduct interviews. The students did a tremendous job!



Flight Simulators

Fifth grade students had the opportunity to tour Cleveland Middle School and CTE classes. The students were excited to see all of the offerings available.



CHS CTE Showcase

Cleveland High School CTE department set up booths in the CMS theater and showcased the different programs. Eighth grade students were able to meet the teachers and talk to student ambassadors of each high school CTE program.



Military Ball

Cleveland Air Force JROTC hosted their first Military Ball on Saturday, March 28 at the Cleveland Country Club. Dr. Dyer was the keynote speaker and spoke on leadership. The cadets had a wonderful time.



Vietnam Veterans Luncheon

Cadets had the opportunity to present the colors at the Vietnam Veterans luncheon on Saturday, March 21.



Cadets attend Archi Manning Fundraising Event

Archie Manning spoke to 1,300 guests at a special fundraising event at Cleveland State Community College, talking about his life in the National Football League and raising three sons, two of whom became college and professional football stars. The cadets were invited by Mayor Kevin Brooks and enjoyed the evening.



CHS Automotive Donated a Car to Copper Basin High School

CHS Automotive was able to donate a car to Copper Basin High School.



Students Create Their Resumes

Entry level students create a resume that they can use for years to come.



SATC Automotive Competition

On March 2, the Automotive Academy conducted their 8th Annual SATC Automotive Competition, hosted at Cleveland High School. Copper Basin High School, Meigs County High School, Polk County High School, Rhea County High School, Madisonville, and Sequoyah High School participated in the competition.



Students Learn About Airport Lighting

Understanding airport lighting is important. It can be complex and sometimes confusing.



Airport Signs

If a student wants to earn their pilot's license, they must learn all of the signs and markings on an airfield. Students in Aviation are learning these markings.



Drones in Aviation

Students learned about how drones are a big part of the aviation industry, civilian and military. Employment opportunities are growing in this field of aviation.



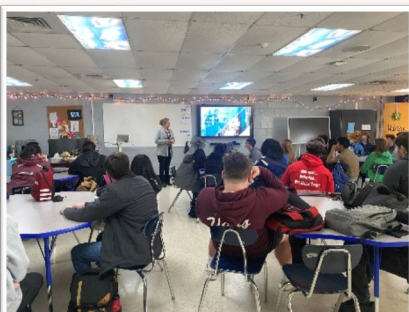
Cleveland Middle School Showcase

All of the Cleveland High School CTE departments put on a great show for the students at Cleveland Middle School. Our Business class enjoyed meeting future students!



Raider Evolve Board of Directors Meeting

The Raider Evolve leadership team presented their business status at the semi-annual Board of Directors meeting. They received valuable feedback from industry representatives who consistently pour into students at CHS.



Raider Evolve Learns From Industry Partner

Denise Rice, owner of Peak Performance, spoke to Raider Evolve students about the manufacturing process. Our students love learning from our industry partners.

COSMETOLOGY



Pedicures

Students are practicing relaxing pedicures with various massage techniques.



Learning Various Braiding Techniques

Cosmetology students practice braiding techniques for an upcoming competition.



Manicures

Cosmetology students practice manicuring.

CRIMINAL JUSTICE



Texting While Driving

Officer JR Burnette taught students that reading one text while driving means you travel the length of a football field completely distracted.



CHS Open House

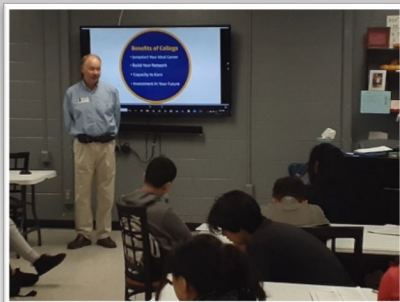
CHS Criminal Justice students, Isha and David, work to encourage 8th graders to come and join their class during the CHS Open House.



Paradigm Projects

Officer Jennifer Samples with the Cleveland Police Department teaches students about the dangers of DUI.

CULINARY ARTS



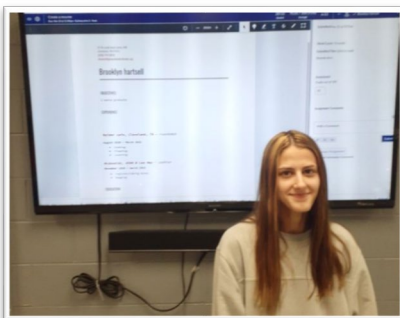
College Visit

Johnson and Wales spoke to Culinary Students about the Culinary opportunities in College.



Catering for Raider Scholar Event

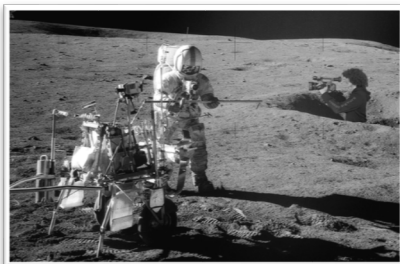
Students prep for a reception in the Raider Arena to celebrate Raider Scholars.



Creating Resumes

Culinary Arts students constructed their resume for industry employment.

DIGITAL MEDIA



History of Digital Media

In class, students learn about digital media history.



CHSLive Meets Upcoming Freshmen

CHSLive visited Cleveland Middle School to promote our program to the upcoming freshmen. We also had the chance to see CMS RaiderTV in action. What amazing young talented students they have!



FX Showcase

Digital Media hosted the FX CTE Showcase for freshmen at Cleveland High School.



@BLUERAIDERSLIVE



@CHSLIVE



CHSLIVE



CHSLIVE

ENGINEERING



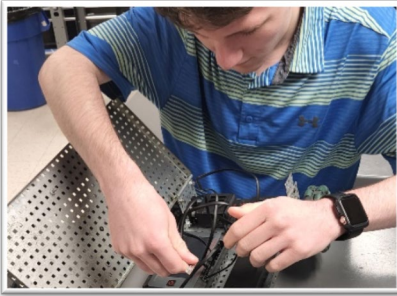
EnergyRight Program

CHS had the opportunity to have Cleveland Utilities and TVA's EnergyRight program meet with our Engineering Design and Development class to teach them about how our power grid is supplied, and how to be energy wise!



Project Presentations

Engineering Design and Development class presented to Denso and Cleveland High School administration. Thanks to these contacts for giving students feedback, guidance and encouragement!



Capstone Projects

Our Engineering Design and Development class is making great headway on their capstone projects! They are working on projects addressing humanitarian and environmental needs!

HEALTH SCIENCE



Preparing for Lab Practical

A&P dual enrollment are isolating all the muscles to prepare for their lab practical.



Body Exhibits

In our human body project, students add to their human body poster as they learn about the systems, making it a great way for students to stay engaged throughout the entire unit.



Anatomy of the Brain

Anatomy & Physiology students learning the anatomy of the brain by doing a sheep's brain dissection.



Promoting Their Program

I.T. Academy promotes their program to incoming freshmen. Dr. Saez and students had a great time visiting with future Raiders and technology scholars!



Learning From Industry

Thank you, Scott Dempsey from McKee, for speaking to the I.T. Academy and other CTE groups. Industry information is valuable for our students!



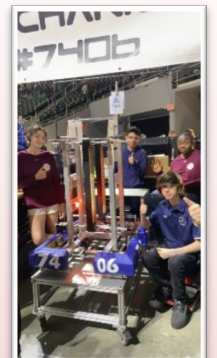
fX Showcase

FX Showcase was a success! Freshmen students had the opportunity to check out CTE programs and ask questions for the next academic year.



FIRST Robotics Competition

Cleveland High School Robotics Club, Ministry of Mechanics, competed in Knoxville, at the FIRST Robotics Competition. Under strict rules and limited time and resources, teams of high school students are challenged to build industrial-size robots to play a difficult field game in alliance with other teams; while also fundraising to meet their goals, designing a team "brand," and advancing respect and appreciation for STEM within the local community.



A Message From The CTE Supervisor

March 31, 2022

As part of its general ban on sex discrimination in schools, Title IX outlawed discrimination in Career and Technical Education (CTE) classrooms. Forty years later, male students continue to predominate in courses that lead to many high-skill, high-wage jobs, while female students make up the majority in the low-wage, low-skill programs. These enrollment patterns reflect, at least in part, the persistence of sex stereotyping and discrimination. Given worldwide demand for workers with technical knowledge, increasing female participation in CTE is unlikely to come at the expense of their male counterparts; rather, by increasing the total pool of skilled workers, it will help keep the United States competitive and benefit the economy. Encouraging gender equity in CTE will also reduce barriers for males seeking entry into fields traditionally occupied by female workers, including high-growth areas such as nursing and other medical professions. Thus, ensuring equitable participation in CTE by eliminating discriminatory practices and increasing the engagement of women and girls in STEM has important implications for all students.

CTE is for everyone!

Sincerely,

Renny Whittenbarger



Connect with us!

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



@ccscte



@ccscte

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Important Dates

April 15

Easter Break – Schools Closed

April 18

Parent Conferences – Schools Closed

April 28

CTE Awards Ceremony

May 20

Abbreviated Day/Last Day of School for Students

May 23

Staff Development – Schools Closed

