



CLEVELAND CITY SCHOOLS CAREER & TECHNICAL EDUCATION

August 2022

NEWSLETTER

Tango Flight

Cleveland City Schools is known for giving students real-world opportunities and experiences through its exceptional Career and Technical Education (CTE) programs. Cleveland High School's CTE program will reach a new height this year.

Enter Tango Flight, where STEM takes flight. Tango Flight is dedicated to fostering students' interest in trade careers and hobbies. More than just the construction of an airplane, Tango Flight ensures students experience every part of aerospace. Through mentorship, Tango Flight is devoted to teaching mechanical skills as well as life lessons in commitment and teamwork. Unlike any other program offered in the United States, Tango Flight allows students to acquire lifelong skills and expertise in the aviation industry.

Renny Whittenbarger, Supervisor of Career and Technical Education for Cleveland City Schools, said they are the second school system in Tennessee to partner with Tango Flight to give students the opportunity to build a two-passenger plane.



An example of what the completed Tango Flight project will look like.



Cleveland City Schools Career and Technical Education has completed the first Tango Flight training in July with our teachers and mentors. They successfully assembled the Vertical Stabilizer.

Tango Flight is an educational non-profit organization focused on bringing STEM curriculum to high school students. It focuses on inspiring the next generation of engineers, pilots, aviation mechanics, and technicians.

"Cleveland High School's goal is to offer students High Skill, High Wage, and In-Demand career learning opportunities. Tango Flight allows students to work shoulder-to-shoulder with professional mentors to build an actual FAA-approved, two-passenger RV-12iS airplane from beginning to end," Whittenbarger said. "Tango Flight perfectly aligns with Cleveland City Schools STEM initiative in order to solve real-world problems".

Twelve students are currently enrolled in Tango Flight at Cleveland High School. The goal is to have the project completed by the end of the school year. Students will have the opportunity to ride in the plane with their parent's permission.

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



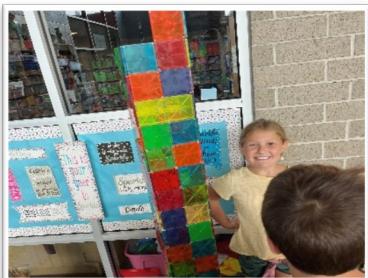
Arnold Elementary School

The second and third graders learned about the inventor of Crayola Crayons. The inventor used the design process to test and improve their recipe. The students used the same design process in order to build crayon boxes, using different building materials.



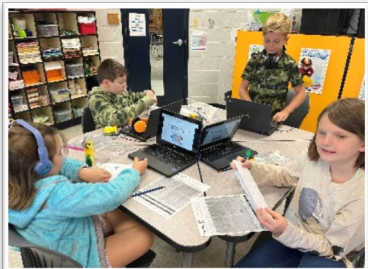
Blythe-Bower Elementary

Kindergarten students learned about shapes and then constructed their snacks out of shapes.



Candy's Creek Cherokee Elementary School

Students learned how to build high and sturdy towers with magnetic building blocks.



E.L. Ross Elementary

Ross students started the new school year reviewing the Acceptable Use Policy and learning about online safety.



George R. Stuart Elementary

Students at are learning how to take care of the school's garden. Led by our amazing garden teacher, Mrs. Webb, students are able to identify the parts of a plant and use their senses to determine the kinds of plants in the garden.



Mayfield Elementary

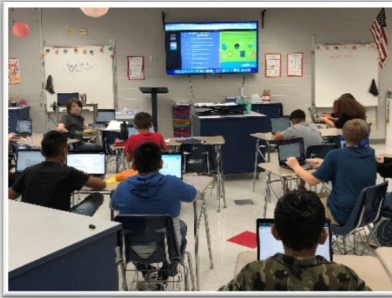
Kindergartners used KEVA Planks to build a tower. This was the first time they had used KEVA Planks, but some made very impressive towers!



Yates Primary

Students started the school year learning about architects. They used materials to build their own designs.

CMS BUSINESS



Safety First

Safety is always the most important thing students cover and these students knocked it out of the park.



Digital Media

The Digital Media students worked on creating content to promote student athletics and events at Cleveland Middle School.

CMS MEDICAL SCIENCE



Medical Science Technology

Medical Science students started using the Anatomage table to study human anatomy.



Hands on Learning

Students in the Medical Science class began practicing spine boarding and spinal stabilization.

CMS ENGINEERING



Building from Scratch

CMS STEM students are designing buildings from scratch to be the next Empire State Building.



Testing Skills

STEM 2 students used the flight simulators to test their piloting skills.



Smart Factory Expo

Cleveland High School JROTC made us proud by presenting the colors at the Smart Factory Expo.



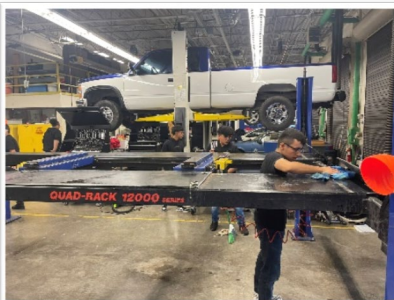
Color Guard Performance

The color guard performed brilliantly at the first football game of the season.



Just Getting Started

The cadets in JROTC received partial uniform issue, completed team bonding, and open house during week three of school. At the end of the week, the color guard and flag detail did an amazing job at the football game.



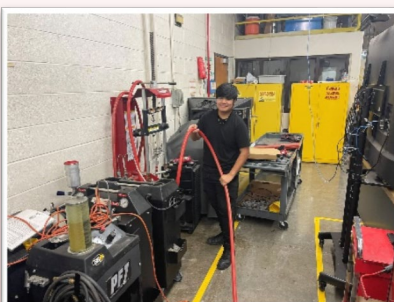
First Things First

Automotive students get first hand experience in the most basic of all shop tasks, cleaning and organization.



Post Secondary Opportunity

Automotive Students explored Post Secondary opportunities with UNOH, University of Northwestern Ohio. This is one of the top automotive schools in the country.



Hands On

Automotive students get experience in learning organizational skills in the shop.



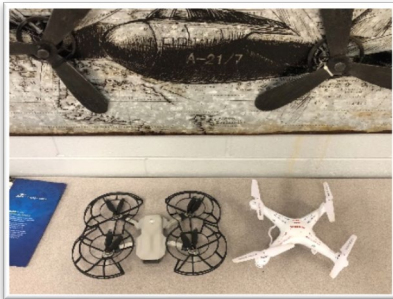
Tango Flight

Tango Flight parts started arriving for the two-person plane that the Aviation Academy students will build this year.



Students Learn Inventory

The student team is learning about inventory, storage and warehousing. Students began organizing and documenting supplies so they can begin to build Tango Flight.



Aviation

Students in the Aviation classes will have the opportunity to join the Aviation club which will explore more about drones and how to become a certified FAA remote pilot.



Foundations

Business Academy is hard at work on the foundations of business.



Career Clusters

The Business Academy classes discussed career clusters- business management, administration, finance, and marketing. Learning about these career clusters help our students discover what field they might want to enter after high school.



College Business Programs

Manushi Shah, a senior student in the Business Academy, learns more about business programs at the University of Tennessee Knoxville.

COSMETOLOGY



Salon Safety

Students review salon safety the first week of school.



Skincare

Cosmetology students are studying skin structure and it's functions.



Illustrations

After learning about skin structure and functions, cosmetology students completed group projects illustrating the structures.

CRIMINAL JUSTICE



Identifying Crimes

Criminal Justice students learned to identify crimes and types of crimes.



Learning about Law Enforcement

Criminal Justice students learned about Law Enforcement current events and career opportunities in Law Enforcement and the criminal courts.



Suiting Up

Criminal Justice students learned about and explore Law Enforcement equipment.

CULINARY ARTS



Fresh Faces

These are some of the Culinary arts students for the 2022-23 school year and they passed their safety test!



Safety First

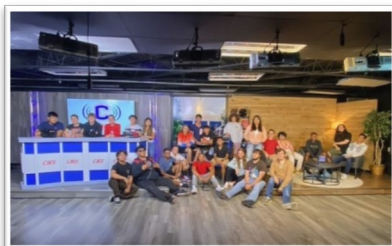
Culinary students practice knife safety. This is one of the most important lessons to learn in the kitchen.



Practice Makes Perfect

Culinary Students work on knife skills and different types of cuts. It takes 2,000-5,000 times to make it muscle memory.

DIGITAL MEDIA



New School Year, New Crew

The new CHS Live team has been hard at work this week prepping for broadcasting the first game of the football season.



CHS Live

The CHS Live team live streamed the first football game of the season, hitting a huge milestone of having over 700 views.



On the Sideline

CHS Live students worked the sideline cameras to get close up of the opening season football game.



@BLUERAIDERSLIVE



@CHSLIVE



CHSLIVE



CHSLIVE



Critical Thinking

A&P students kicking off the year with reviewing medical history timelines.



Testing

A&P students testing homeostasis while trying to stabilize their patient.



Saving Lives

Medical Therapeutics students practices two person CPR. They are learning how to save a life.



Getting to Know You

Students in the IT Academy played "Find someone who..." as a way to get to know their peers.



Student Research

Students had to find others with interesting hobbies, skills, and talents in order to win a bingo prize.



Ready for Industry

The CHS IT Academy has partnered with Certified Internet Web Professional (CIW) to get students industry certified as CIW site Development Associates. They will test before Christmas break and leave Web Design class ready for industry!

ROBOTICS



Safety

Students have been studying OSHA and TOSHA safety procedures. Students were arranged into small groups and tasked with inspecting the CHS lab area by taking pictures and documenting all safety hazards found.



Student Presentations

Students created a PowerPoint and presented their findings from their safety inspection of the CHS lab.



Design Challenge

Students learned about mechanical gears, chain drives and how they are used in everyday applications. Students were challenged to design and build a Gear Train Drive System.

WELDING



New Opportunities

Lincoln Electric accepted us to the education portal which will give the program many discounts and lots of help for the students.



Safe Practices

The welding class went over safe practices, including fire safety, in the work area.



Personal Protection Equipment

Students learned about different types of Personal Protection Equipment, or PPE, and had fun while doing it!

A Message From The CTE Supervisor

August 31, 2022

The 2022/2023 school year has begun! Student excitement and positive energy is evident in our Career and Technical Education (CTE) classrooms. After what our students have been through the past 3 years, I have to say, I am impressed with our CTE students' resilience.

As students focus on their chosen career path, our CTE classrooms are immersed in opportunities that will launch students in a direction that results in high wage, high skill, and in demand careers. Oftentimes, students assume that they must become a doctor, attorney or business person in order to be successful; however, those are very broad career paths that tend to be highly competitive in terms of job opportunities. Career-driven and technical classes diversify students' job options and allow them to have a viable career path that they can continue to pursue while in middle and high school, as well as after graduation. Not only do they learn more about their aspiring job field, but they also have the freedom to explore other business/industries they may not have previously considered. In other words, they are not limited to a single career option.

Ultimately, Cleveland City Schools CTE programs set all students up for career success no matter their education or which career path they choose to take after graduation.

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

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Important Dates

August 25

Cleveland High School open house

September 5

Labor Day – Schools Closed

October 3-7

Fall Break – Schools Closed

November 8

Parent Conferences – Schools Closed

November 21-25

Thanksgiving Break – Schools Closed

December 22-January 4

Christmas/New Year Break – Schools Closed



Created by Jennifer Higgins