



C2 Pipeline is a Wayne State University, College of Nursing Program
Funded as a 21st CCLC program through the Michigan Department of Education

CSI

Finger Printing

Students learn about the history of fingerprinting and the methods that forensic scientists use to detect fingerprints. Students participate in a lab where they will analyze fingerprints and dust fingerprints.

Grade Recommendation: 8- 12

Time Allowed: 1 hour

Cost: \$ 175.00 per group

Ballistics

In this activity, students use spent slugs found at the scene of the crime to determine the guilt or innocence of a suspect. They will learn all about ammunition and conduct a ballistics forensic examination.

Grade Recommendation: 8-12

Time Allowed: 1.5 hours **Cost:** \$ 175.00 per group

Blood Simulation

Students learn about the properties of blood and how forensic scientists conduct field tests for blood. Students test blood samples to determine blood types of suspects, the crime scene and the victim.

Grade Recommendation: 8-12

Time Allowed: 1 hour

Cost: \$ 175.00 per group

Drug Toxicology

Students learn about forensic drug toxicology and detection of drugs. They also learn about forensic toxicologists and their role in forensic science. Students participate in a drug detection lab.

Grade Recommendation: 8-12

Time Allowed: 1 hour

Cost: \$ 175.00 per group

Blood Spatter

Students learn about the properties of blood and how it relates to blood spatter analysis. They will complete a lab that investigates several types of blood spatter patterns.

Grade Recommendation: 8-12

Time Allowed: 1.5 hours

Cost: \$ 200.00 per group

Important Info: Please dress appropriately, might be messy.

Hair Analysis

Students will learn about hair and how forensic scientists use samples to solve crimes. They will also learn the basics of microscope use and how to make a wet mount with their own hair!

Grade Recommendation: 8-12

Time Allowed: 1 Hour

Cost: \$ 175.00 per group



@c2StemLab

313-577-3499

c2stemlab@wayne.edu

<https://c2pipeline.wayne.edu/stem-lab>

C2 Pipeline Innovation and Curiosity Lab

5000 Gullen Mall Rm. 133

Detroit, MI 48202

TECHNOLOGY

Spheros – An intro to Java

Come learn the basics of Java Programming with the Sphero SPRK+! Students will be challenged with getting their robot through a maze with multiple obstacles!

Grade Recommendation: 8 -12

Time Allowed: 3 hours

Cost: \$175.00

Raspberry Pi Sensor Labs

Check out our latest addition to the STEM Lab! The Raspberry Pi Sensor lab exposes students to sensors that are found in everyday house hold items like, a smoke detector, thermostat or even an Xbox controller. In this lab students will build the sensors and explore the programming language, Python. Contact us for all the activities available with this option!

Grade Recommendation: 9-12

Time Allowed: 1.5 hours

Cost: \$175.00 per group

3D Printing

New lab design Coming Soon

Raspberry Pi Racing

The Raspberry Pi Racing lab has students reverse engineer their own car that is powered by a Raspberry Pi and remotely operated with their smart phone. Students will understand the basic parts of a car as well as the technology component that goes into modern day cars. Fully equipped with a camera, sensors and servos this car is a tinkerer's dream!

Grade Recommendation: 9-12

Time Allowed: 2.5 hours

Cost: \$ 175.00

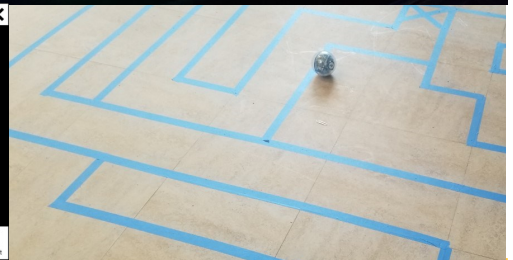
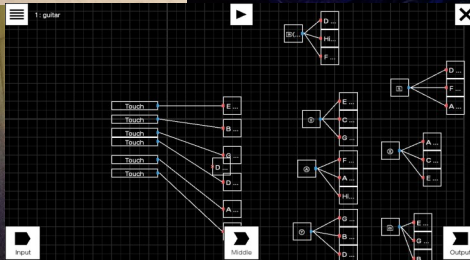
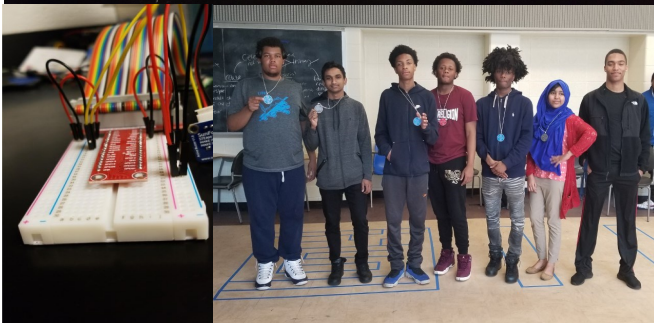
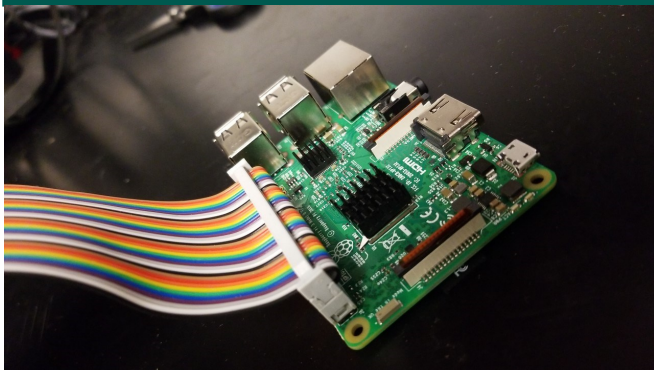
Nintendo Switch Battle of the Bands

Who doesn't love a good Nintendo game? At the STEM Lab we are coding with the Nintendo Switch. Bring your students and have them code their own band, then compete in the battle of the bands! We have guitars, pianos, drums and more waiting for you to come code!

Grade Recommendation: 9-12

Time Allowed: 2.5+ hours

Cost: 175.00



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ANATOMY

Brain Dissection

Students will examine the exterior and interior areas of a sheep's brain. They will dissect the brain and determine how the brain works.

Grade Recommendation: 7-12

Time Allowed: 1 Hour

Cost: \$ 200.00 per group

Heart Dissection

Students will examine the exterior and interior areas of a sheep's heart. They will dissect the heart to determine how the different parts of the heart are related to one another.

Grade Recommendation: 7-12

Time Allowed: 1.5 Hours

Cost: \$ 200.00 per group

Fetal Pig Dissection

It's a classic, fetal pig dissection has made it to the lab! Students will work in groups to perform a fetal pig dissection.

Grade Recommendation: 7-12

Time Allowed: 1.5 Hours

Cost: \$ 200.00 per group

Eye Dissection

Students will examine the exterior and interior areas of a sheep's eye. They will dissect the eye to determine how the different parts of the eye are related to one another.

Age Recommendation: 7-12

Time Allowed: 1 hour

Cost: \$ 200.00 per group

Lung Dissection

Students will examine the exterior and interior areas of a sheep's lungs. They will dissect the lungs and even get to see them in action!

Grade Recommendation: 7-12

Time Allowed: 1 Hour

Cost: \$ 225.00 per group



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SCIENCE

Liquids and Solutions

Students will learn about the physical properties of liquids and how to prepare and describe solutions.

Grade Recommendation: 6-12

Time Allowed: 1.5 hours

Cost: \$ 175.00 per group

DNA

Learn about DNA with two activities in one! Students will learn the art of gel electrophoresis as well as learn how to cut and match DNA strands .

Grade: 8 - 12

Time Allowed: 1 hour

Cost: \$ 175.00 per group

Non-Newtonian Fluids

Students will learn about the properties of Non-Newtonian fluids. Students will participate in a silly putty vs. Oobleck challenge.

Grade: 7-12

Time Allowed: 1 hour

Cost: \$ 200.00 per group

Acids and Bases

Students learn about acids and bases. They will participate in a lab to turn water into blood and experiment with invisible ink.

Grade Recommendation: 7-12

Time Allowed: 1 hour

Cost: \$175.00



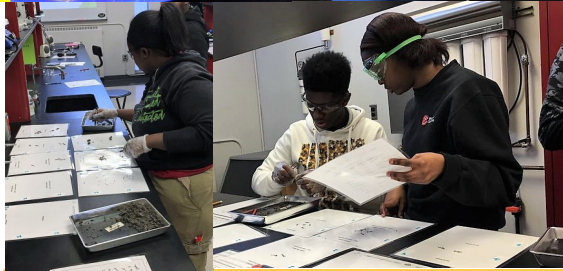
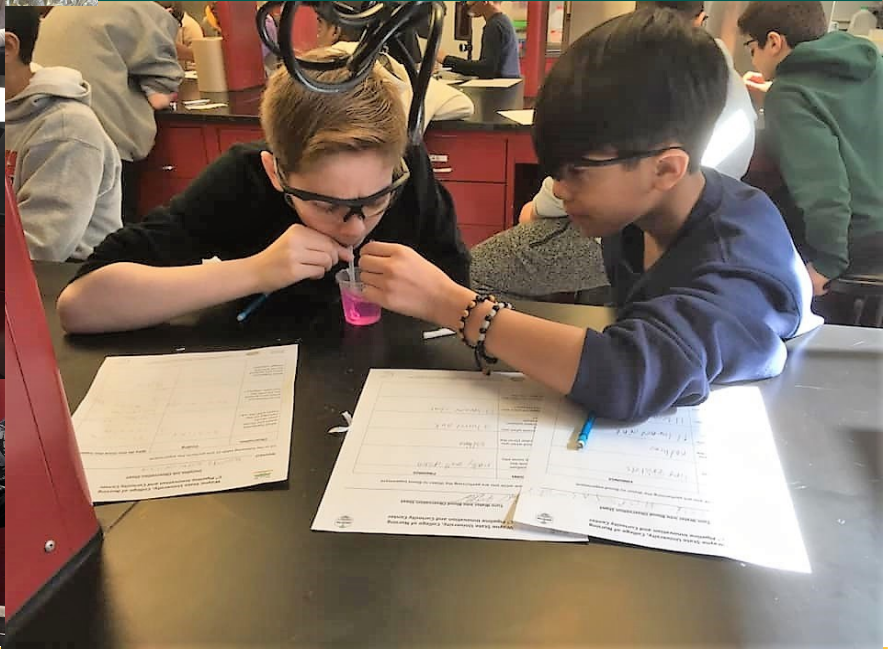
Owl Pellet Dissection

Students will learn about food chains, food webs, transfer of energy, and ecological pyramids and succession. They will participate in an owl dissection lab

Grade Recommendation: 7-12

Time Allowed: 1 Hour

Cost: \$175.00 per group



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Schedule a Lab today!



If you have any questions, or would like to schedule a lab over the phone Give us a call!

Cynthia Maxwell
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Wayne State University
313-577-3499
c2stemlab@wayne.edu

Programs can be eliminated or added at any time.

