

# STEAM WEEK VIP Student Poster Session

## SESSION # 1

### Wylie Elementary School

#### Severe Weather: designing a shelter to provide safety

Students explored different types of severe weather affecting Michigan and researched a specific hazard. Using their findings, they created an informational slideshow and designed a strong shelter for storm safety. Math skills were applied to measure area, perimeter, and weight.

## SESSION # 4

### Hudson Middle School

#### Theme & Evidence in A Long Walk to Water

In this project, students analyzed Linda Sue Park's "A Long Walk to Water" by identifying a central theme and supporting it with evidence from the text. Students created and presented a visual poster that included a theme statement, textual evidence, written analysis, and a creative response, demonstrating comprehension and communication skills.

## SESSION # 7

### Kensington Woods HS

#### Environmental Design

After assessing the biodiversity and human impact on our local ecosystems, students are designing a green school using LEED Green Building principles and biophilic design.

## SESSION # 10

### YCHS / Ypsilanti STEMM Middle College

#### Grizzly Robotics = STEM + Manufacturing

Learn how to use a laser engraver to make your own Ypsilanti Grizzly keychain, a product of Ypsilanti Community High School's manufacturing CTE program, an expansion of Ypsilanti STEMM Middle College and FRC Team 66.

## SESSION # 13

### Lincoln High School

#### Helping the Songbirds!

Songbirds in Washtenaw County are in decline. Our project Lincoln High School will dedicate space to help meet the needs of songbirds.

## SESSION # 2

### Manchester JR/SR High School

#### Entrepreneurial STEM

We use our experiences from STEAM K-7 to launch a business. We will be sharing several of our entrepreneurial efforts today.

## SESSION # 5

### Wylie Elementary School

#### Michigan Weather Hazards

We explored the question, "How can we prepare for an unexpected weather hazard?" We began by studying the "November Witches," powerful storms on the Great Lakes that have caused many shipwrecks. We then tracked daily weather to better understand local patterns. A NOAA meteorologist gave a presentation, teaching us about weather hazards and safety measures. Finally, we worked in groups to create projects that explained different weather hazards in Michigan, their causes and effects, and how to stay safe during these events.

## SESSION # 8

### Southern Michigan Center for Science & Industry

#### Build a Drone, Fly a Drone

Hudson CSI Engineering students build a drone and flight controller from a kit. And fly!

## SESSION # 11

### Washttenaw Community College

#### ATtiny85 Development Board Project

Design and mass production of a development board for the WCC ENGR Seminar where the team taught ~90 students how to design their very own development board—start to finish.

## SESSION # 14

### Jonesville Community Schools

#### Handwritten Character Interpreter

Understanding how humans recognize handwritten characters with the goal of creating a Python program that interprets symbols in a similar manner.

## SESSION # 3

### Wylie Elementary School

#### From Storm Drains to Sturgeon: How Water Connects Our Community to Living Relatives

Students explored how rainwater travels from storm drains to local waterways and impacts water quality for fish. Using water testing & systems thinking, they combined Western science methods with Indigenous perspectives that treat fish and water as relatives. The project showed how everyday human actions affect the health and survival of species in our watershed.

## SESSION # 6

### Wylie Elementary School

#### Arbor Day in Dexter

Reacting to a challenge by the city of Dexter to help with their annual Arbor Day tree giveaway.

## SESSION # 9

### YCHS / Ypsilanti STEMM Middle College

#### Grizzly Robotics = STEM + Design

Grizzly Robotics Team 66 models what skills they learned through FIRST Robotics Competition and how the arts play a role at events and while promoting STEM in their community.

## SESSION # 12

### Washttenaw Community College

#### Saguaro Cactus Ecology

This poster presentation will focus on the ecology of the Saguaro Cactus.

## SESSION # 15

### Wylie Elementary School

#### How do animals survive in their habitats, and what role do humans play in their survival?

Third-grade students explored the question, "How do animals survive in their habitats?" They researched a specific animal to learn about its habitat, basic needs, and adaptations. Using this information, students wrote an expository text explaining how the animal finds food, stays safe, and survives. They also created a labeled habitat model to visually demonstrate their understanding. Finally, students discussed ways humans can help or harm animal habitats, encouraging early environmental awareness.