

School: Erie Elementary

District: Chippewa Valley Schools

Teacher: Vicki Myers

Students: Ben Niedzwiecki, Zachary Tomlinson, Sam Orlando, Madelyn Habel and Marina Corri.

A Toolbox for the 21st Century Fourth Grade Learner

Students will share their toolbox of technology that will help them become lifelong learners. These tools are what future employers will be looking for communicators, collaborators, researchers and problem solvers.

School: Hart Middle School

District: Rochester Community Schools

Teacher: Kristin Baljet

Students: Dylan Gagala, Rocco Lekocaj and Tyler Thomas

GDL (Global Digital Leadership)

Global Digital Leadership is an elective course offered to 6th grade students in our school district. For this specific project, three 6th grade boys made a video using the Clips App to display their appreciation for leadership and citizenship in our school. This video features our school motto, which is "Lead With H.A.R.T." The video is set to music and showcases their interpretation of H (Helpful) A(Accountable) R (Respectful) and T (Thoughtful). Their video also sheds light on their community service project for the semester, in which they feel they became true leaders in our community!

School: Mars Elementary School

District: Berrien Springs Public Schools

Teacher: Renee Peddie

Students: Caleb Harden, Austin Leavitt, Ocean Shaw and Kaydence Shelton

Coding in Elementary School

Second grade students will share how we use technology in our classroom to solve problems, gain new knowledge and skills, and scaffold learning to become excellent computer scientists (coders). We are happy to share our animated storytelling, unplugged robotics game, coding with markers and Ozobots, and gaming with Makey-Makey.

Want to come and play with us? What could you learn??

School: Marshall Opportunity High School
District: Marshall Public Schools
Teacher: Jason Raddatz

Student-Lead Projects for STEM

(MOHS) can complete either a Math or Science credit by completing a STEM course. This course uses a student-lead teacher guide as the pedagogical model. Students control the range and depth of knowledge of their selected project and experts in the community who attend presentations in a trade-show type of atmosphere determine evaluations.

We hope that our students will have the opportunity to share their projects and experiences to attendees. These projects include 3d Printed prosthetic hand, synchronized drone dancing, and algebraic solving laser shooting robotic arms.

School: Norup International School
District: Berkley School District
Teacher: Melissa Miller/Rachel Smith
Students: Blake Comstock, Andrew Hanks, Nahla Hannah and Shira Kohn

Kids Public News

Our students are using technology to produce a classroom newscast, which we send to families to inform them of weekly student learning and events. Students write scripts and do the reporting, recording, and producing using the apps Green Screen and iMovie. This weekly newscast enhances learning by giving students an opportunity to communicate their progress to a community outside their classroom. As a Title One school with a high ESL population and relatively limited parent communication, this newscast is not only giving voice and confidence to our students, but also building a greater connection to our families and local community

School: Norup International School
District: Berkley School District
Teacher: Julia Morse
Students: Nada Abdella, Adeline Dereniewski, Ethan Rouse and Christopher Newby

Second Grade News Reports

Our students are using technology to produce a classroom newscast, which we send to families to inform them of weekly student learning and events. Students write scripts and do the reporting, recording, and producing using the apps Green Screen and iMovie. This weekly newscast enhances learning by giving students an opportunity to communicate

their progress to a community outside their classroom. As a Title One school with a high ESL population and relatively limited parent communication, this newscast is not only giving voice and confidence to our students, but also building a greater connection to our families and local community.

School: Roosevelt Elementary School
District: West Bloomfield School District
Teacher: Carrie Roth

Small Moment Storytelling with Scratch A Collaborative Coding Project

The First Grade students at Roosevelt Elementary School are coding with a purpose! Every year, the First Graders launch their writing curriculum by telling small moment stories. The students learn that stories have a beginning, middle and end. The students will explore skills in their writing to help them develop strong characters, setting and voice.

They also learn coding! When coding, they learn that their lines of code need a beginning, middle and end; they can also can add characters, setting and voice!

We have decided to marry the two units of student together by using Scratch Jr. to digitally tell students' Small Moment Stories. The students will additionally work on fluency and oral storytelling by adding voice-overs to their Scratch Jr. Digital Story Projects. This opportunity allows the students to benefit from the best of both worlds: low tech (paper and pencil, brainstorming, etc.) and high tech (coding, voice-overs, etc.) to support this curricular learning.

We are proud to have our awesome First Graders showcase their learning in both writing and coding at the MACUL Student Technology Showcase!

School: Roosevelt Elementary School
District: West Bloomfield School District
Teacher: Sara Rich
Students: Rohin Sharrow, Neel Kamath, Layla Kalanquin, Casey Forstner

Regions Variety Show Elementary

Students produced their own Variety Show as part of a PBL around the Regions of the US. They designed a Stop Motion movie of where we traveled in the United States stopping in different places in each of the 5 regions. They also created a Google My Map presentation "visiting" (and adding important information) about multiple landmarks in each region.

School: Roosevelt Elementary School

District: West Bloomfield School District

Teacher: Tracey L Michalak

Students: Jordan Dymont, Charlie Meade, Kelsey Hartley, Tyler Zaborny

Video Game Project

Fifth grade students researched video games and wrote storylines for a game they felt would be appropriate for other elementary aged students. They created the games in Scratch using coding. In addition, they composed theme songs and sound effects for their games using Soundtrap (a website that allows users to create music) and added them to their games. Students learned about rhythm, melody, form and instrumentation as well as coding in this fun and creative project.

School: Sandusky Elementary School

District: Sandusky Community Schools

Teacher: Kristine Clark

Sandusky Elementary Technology Club

The team of students from the Sandusky Elementary Technology Club will present how they/themselves started a Technology Club at their elementary school from the ground up. A tri-fold board will show pictures and information about the club. Accompanying the tri-fold will be the team of students who will be demonstrating some of the technology they are using within the club to foster the love of learning through technology and how these tools can be used in the classroom to enhance and advance learning. Some examples of the technology they are using are Osmo, Makey Makey, coding, Specdrums, Greenscreen, Dash, Cue, Sphero, Ozobot, Keva Planks, and Drones. The students are passionate and proud of this adventure and the success they have had with the club. These students are paving the way for a great future in an ever-changing world of Technology.

School: Schalm Elementary & Kenwood Elementary

District: Clawson Public Schools

Teacher: Michael Garrity

Students: Frankie Sines, Charly Werenka, Lucy Thomson, Kevin Heydel and Rachel Kage

Thinkers' Club

Third, Fourth and Fifth graders from both elementary schools in Clawson join in a variety of activities which include 3D modeling, chess, decoding wheels, block coding, script coding, Claymation, green screen and Brushbots. Students mentor and encourage one another. Last year our students produced the Claymation video that was used by our local public library to promote the summer reading program. The club introduces multiple ideas and concepts that further students' high-level thinking skills. Some activities, like 3D modeling embrace advance technologies, but there is also an opportunity for those who wish to unplug. Some days the members are practicing high level coding, while other days it feels more like a chess club.

School: Scotch Elementary School

District: West Bloomfield

Teacher: Jennifer Ladd

Ozobots Rock!

Fourth Graders will demonstrate the weathering process, how energy moves through an ecosystem, and other scientific concepts through coding Ozobots! Check out our display to learn fun and engaging ways to make your students thinking visible!"

School: Seitz Middle School

District: Riverview Community School District

Teacher: Amy Farkas

Designing Neuroprosthetics to Meet the Needs of Our Community

Seitz Middle School 8th graders embarked on the eCybermission Engineering Design Challenge to design a solution to a community problem. They chose to use their experience with Backyard Brains Neuroscience Kits to research, design, build, test and improve Neuroprosthetics.

School: South Lyon East High School
District: South Lyon Community School
Teacher: Stacy Briggs

News Production Team TV

1, 2 and Independent Study students collaborate daily to produce a daily live broadcast. Our production includes stories and news events culled by students according to importance as well as weather and sports segments. Using Adobe Premiere Suite and Tricaster we create graphics for our show and include a variety of B-roll: sporting events with play by play commentary, video packages such as PSA's or interviews, segments such as "Pet of the Week" and Road Safety. This production is facilitated and produced by students. Our newscast is five to eight minutes long. We would like to display a loop of our broadcast, bring some of our equipment to display, and bring a student team to represent, discuss and answer questions.

School: St. Johns Middle School
District: St. Johns Public Schools
Teacher: Renee Jorae
Students: Blake, Carter, Clara, Ella and Josh

Connecting Multimedia Technology

We invite you to come meet the talented students of St. Johns Middle School! Our students have embraced learning in a totally paperless environment! Both in the classroom and beyond, students access all course material online. They demonstrate their knowledge and skills on their student-developed Weebly blogs and by completing collaborative projects using applications in Google Drive. Students are excited to showcase what they have learned thus far in their Tech Literacy and Advanced courses which provide students a scaffold, project/quest-based digital learning experience. Various projects feature Moodle, Weebly, Google Applications, Bubbl.us, Paint.net, ArtRage Demo, Windows 10 Video Creator, Sculptris, Tinkercad, Befunky.com, and Adobe Premiere.

School: Warren Woods Tower High School
District: Warren Woods Public Schools
Teacher: Michele Morgan
Students: Garrett Baur and Jordan Wood

Make It Work

Students receiving Occupational Therapy at Warren Woods Tower High School use tech-inspired machines and tools to achieve academic and vocational goals using hands-on applications. Students operate a 3-d printer to create tools used in the program for

students with specialized feeding and AT needs including custom utensil holders, dice with letter combinations used in speech therapy sessions, and geometric volume shapes for math classes. Students learn how to design and operate a laser engraver, CNC router, sewing and computerized embroidery machine as well as a vinyl cutter, and digital die cutter to create functional pieces of art. Students will display the variety of tools they use, projects they have created, and the vocational, academic, and social-emotional benefits of making. Students will be showcasing a mini 3-d printed lathe powered with a DC motor for turning crayons!

School: Royal Oak Middle School
District: Royal Oak Schools
Teacher: Jill Hill

Digital Citizenship PSA with Stop Motion Animation

Royal Oak Middle School 7th-grade students created a stop motion animation public service announcement to increase awareness of Digital Citizenship topics. The Digital Citizenship PSA followed the Design Thinking process, including conducting research and creating storyboards. The final product was shown to both school and community members through our school news program (NTM10).

School: Eagle Creek Academy
District: Oakland Charter Township
Teacher: Christine Kulp
Students: Eden Dharte, Chloe Kersuzan, Davyn Patel and Jessica Tomaszewski

Makey Makey Band

Eagle Creek's third and fourth grade students are experimenting with sound using the MakeyMakey board and the Scratch program. They will create several musical instruments to form a digital band, and play a song together. Instruments will include a piano, a guitar, a drum set and a flute. For demonstration purposes, they will create using one octave.

School: Novi High School
District: Novi
Teacher: Ms. Erin Boedeker

Any Time, Any Place, Any Pace Learning

Come see Novi High School students display their skills learned in Michigan Virtual online classes. Novi students are enrolled in various courses such as Philosophy, Physics,

World History and Geography. Michigan Virtual offers great flexibility for students with over 200 courses, including 24 Advanced Placement courses and seven world languages. Online courses feature streaming audio and video, computer animations, email, chat rooms, digital portfolios and more. Courses are taught by Michigan-certified teachers and supported by on-site teacher mentors. Stop by and let these high school students demonstrate how online learning is providing them flexibility and course variety.