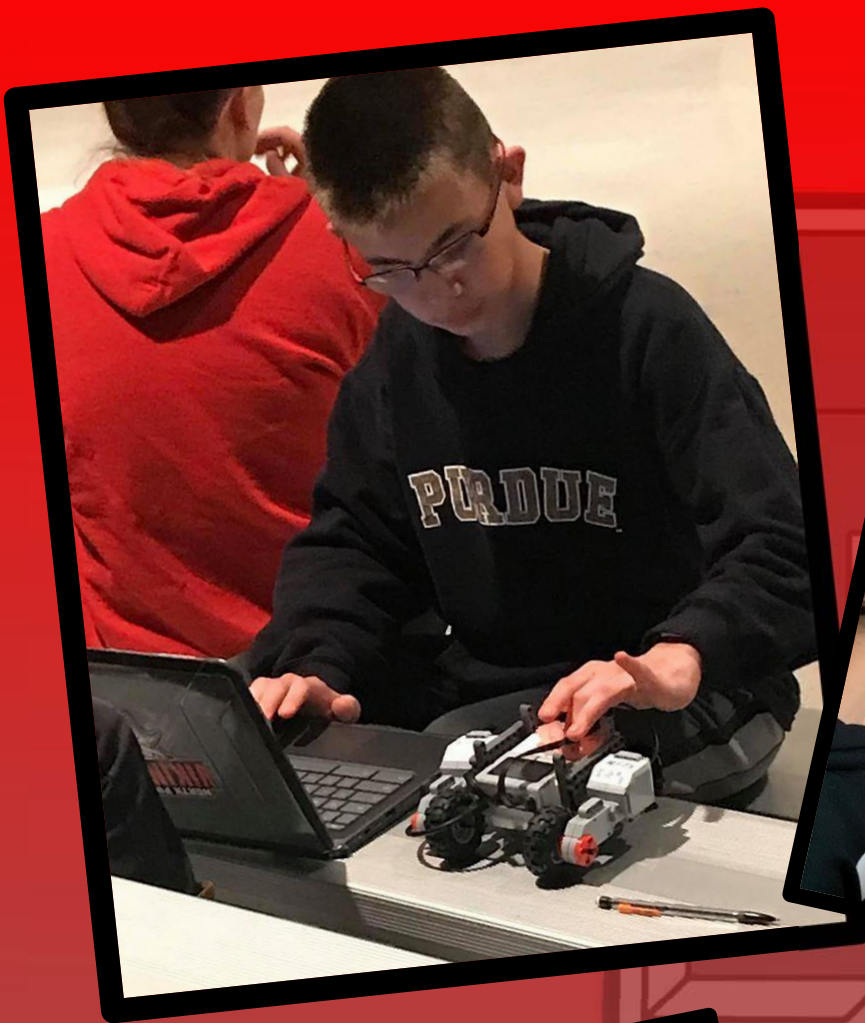


MSD OF NORTH POSEY COUNTY ENGINEERING K-12 PROGRAMS

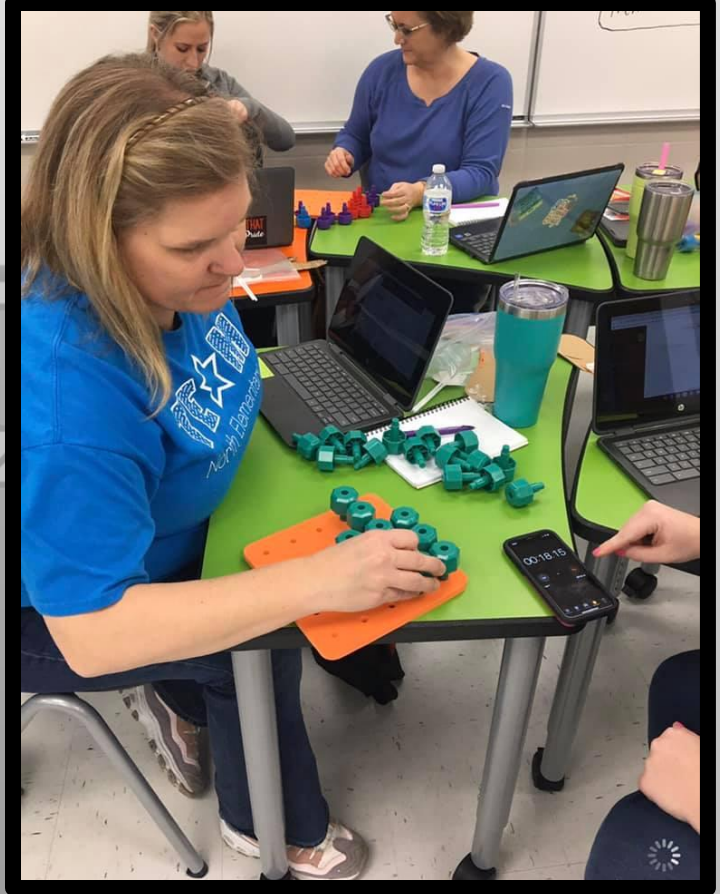


*CREATE THE THINGS YOU WISHED
EXISTED!*



VISION

The STEM vision of MSD of North Posey County is to build a learning culture that nurtures creativity; a culture that actively engages, motivates, and inspires all students in STEM content areas and related career pathways.



MISSION

Our mission is to foster strategic partnerships among grades PK-12, industry, parents and community organizations to promote access, attainment and high achievement for all students to prepare for future STEM Careers. MSD of North Posey County is committed to providing an ambitious and rigorous learning environment through project based learning and real world experiences.

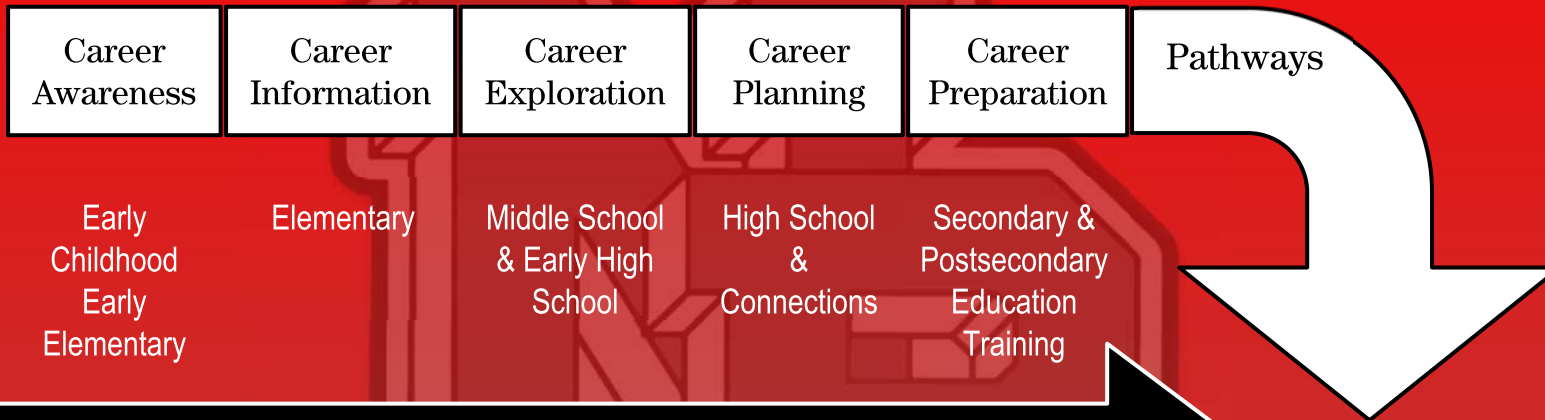




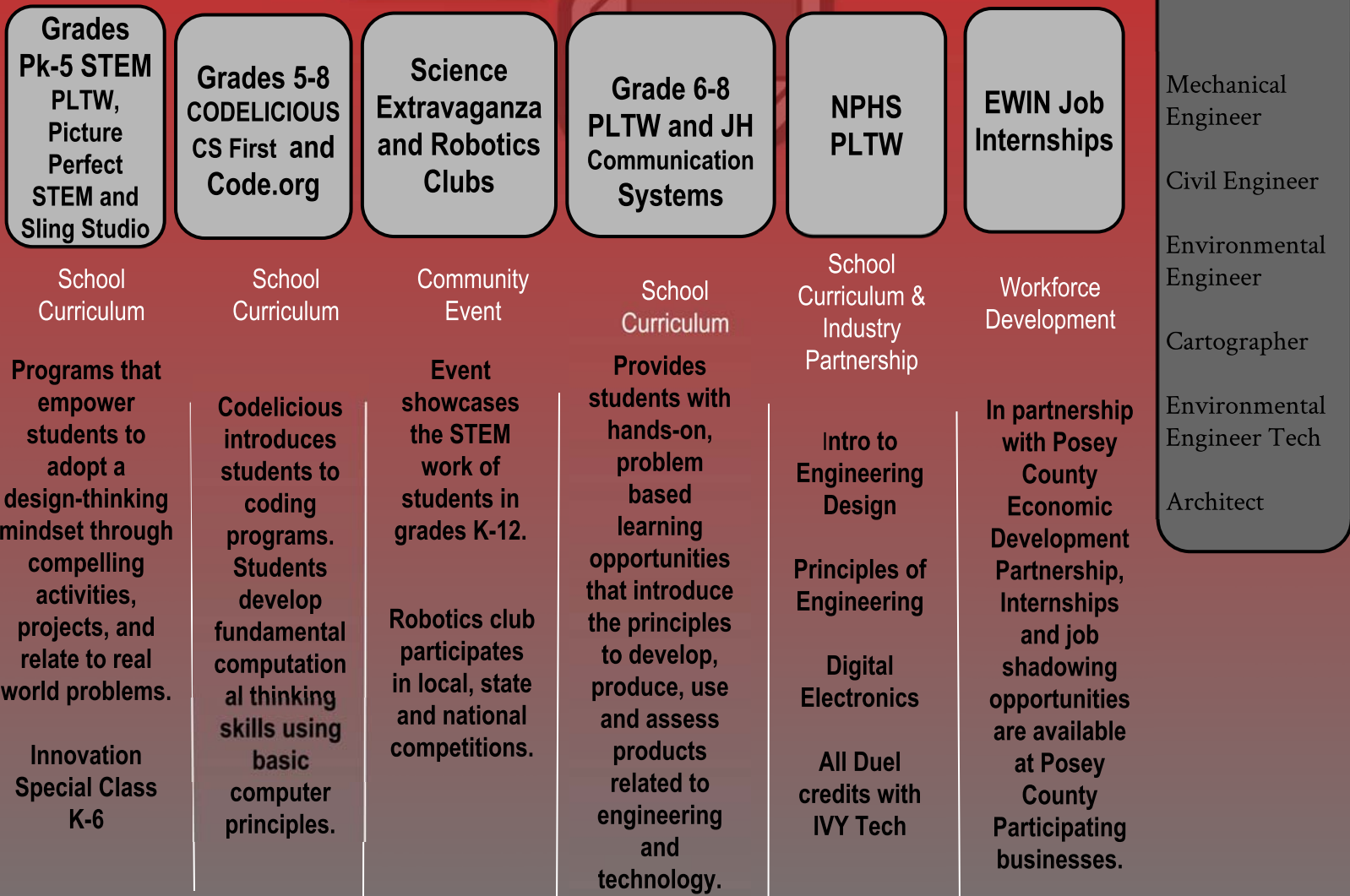
MSD OF NORTH POSEY COUNTY STEM LEADERS

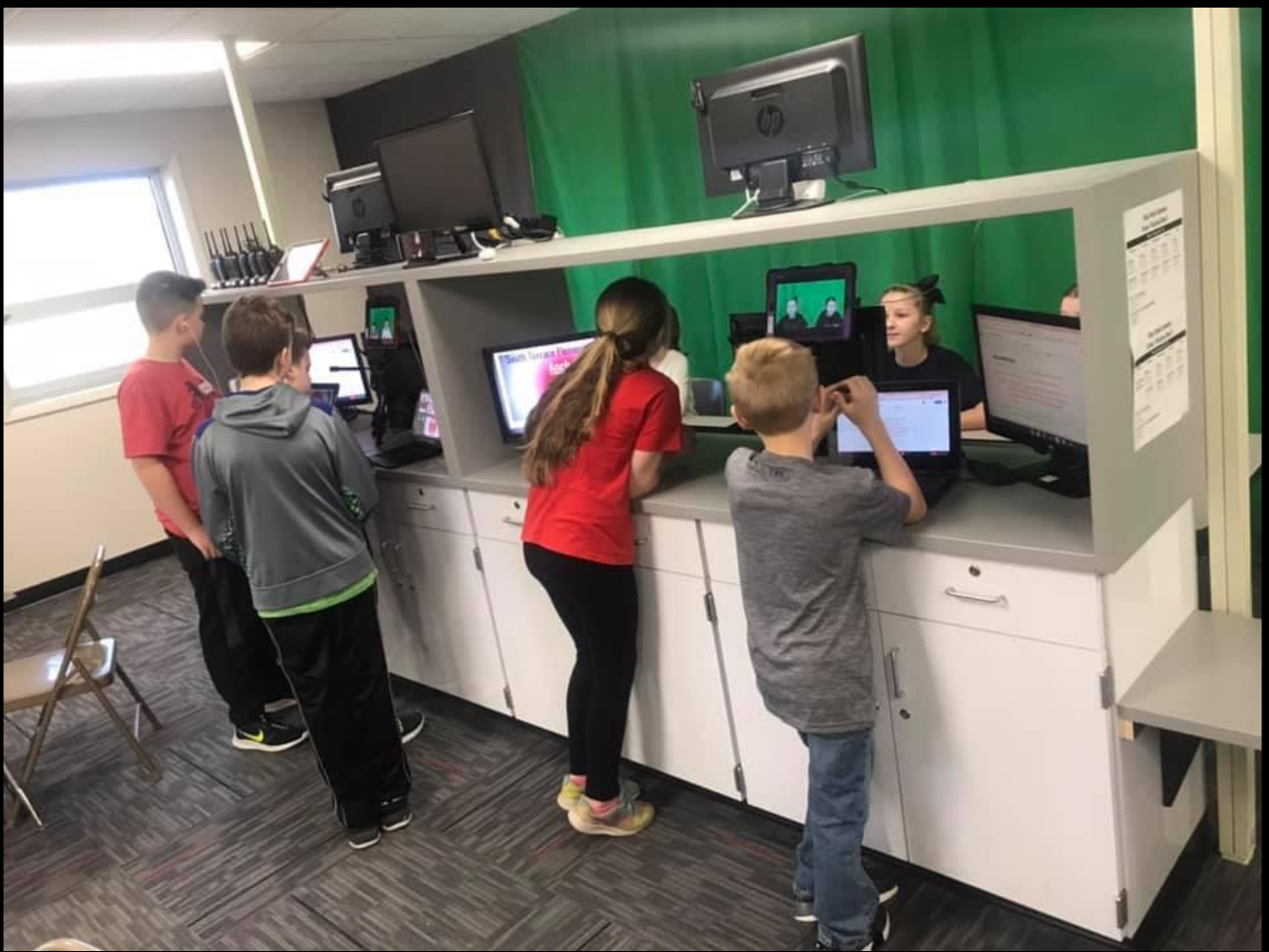
MSD NORTH POSEY

K-12 ENGINEERING PATHWAY



INTENTIONAL BUSINESS ENGAGEMENT WITH WORK & LEARN

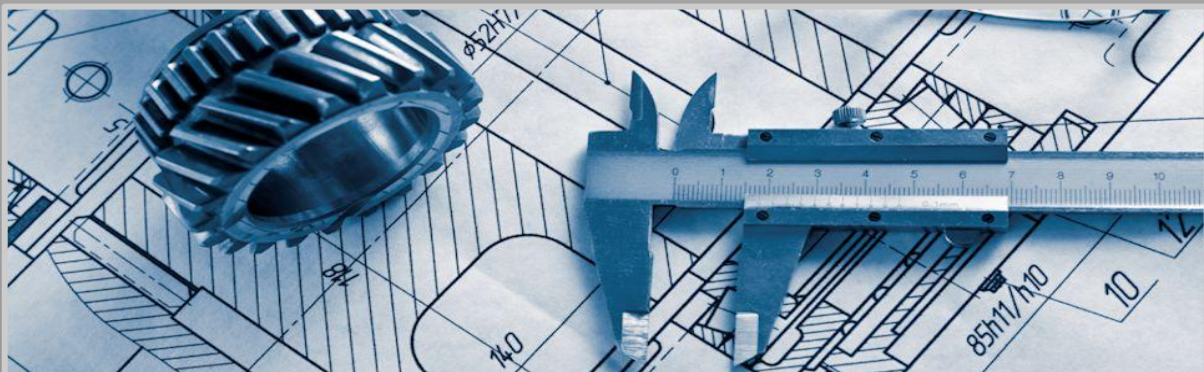




SEEKING STEM COMMUNITY PARTNERSHIPS

ACTIVITIES INCLUDE

- Mentoring
- Advisory Boards
- Donations (monetary or materials)
- Internships for students or teachers
- Training opportunities at business site or school
- Capstone projects (support and judging)
- Field Trips/Tours
- Experts lead school-based activities
- Service based learning

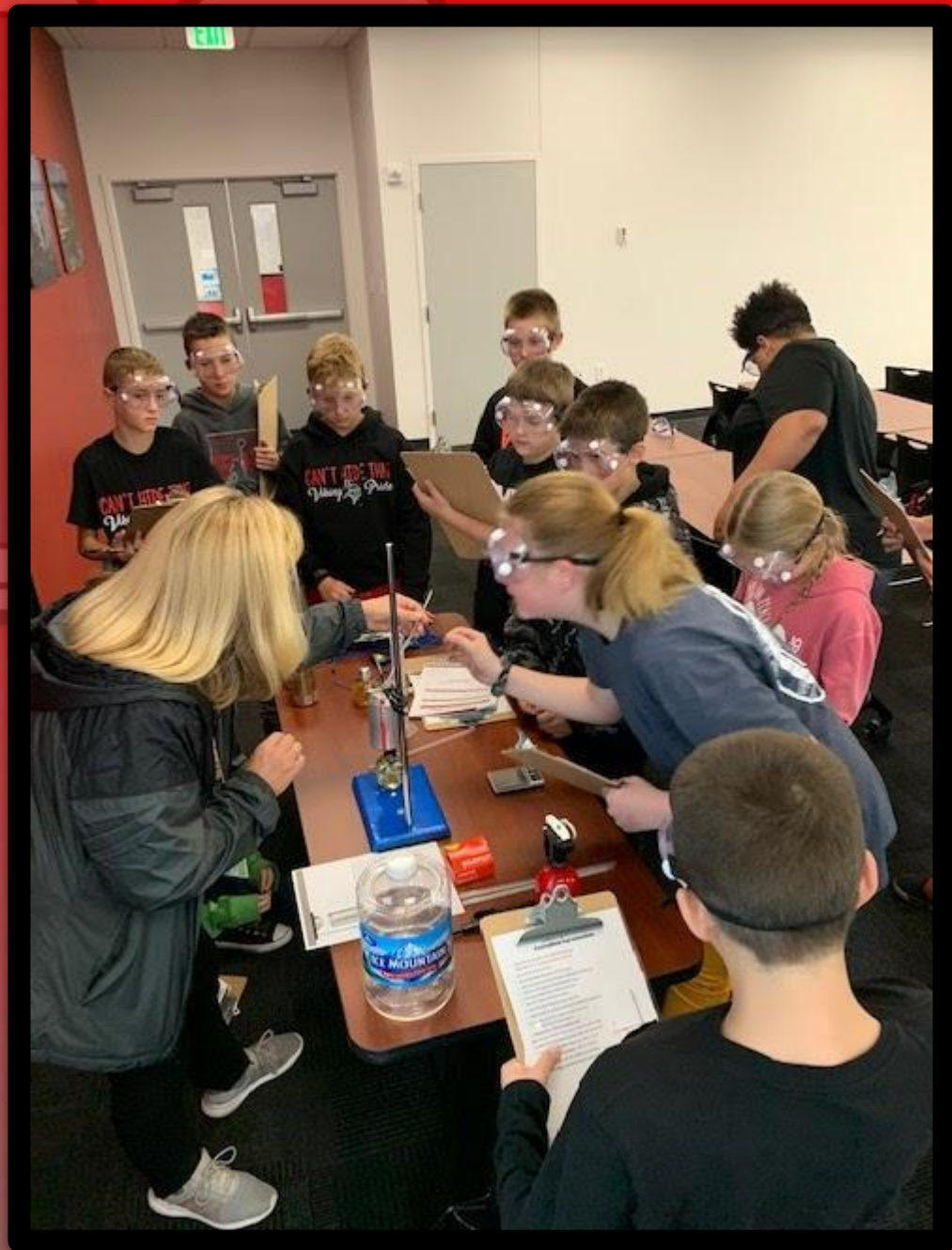


Who we are...

The Viking Culture

Creativity, determination, loyalty, responsibility and a strong code of honor.

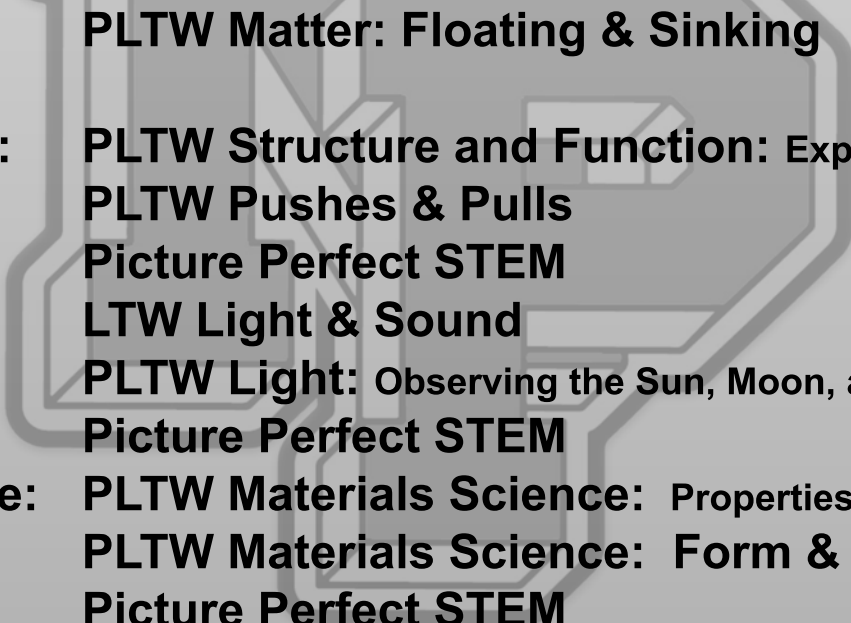
- At North Posey, students strive for academic and athletic excellence as well as good citizenship.
- North Posey Schools offer a private school experience in a public school setting.
- The home of the Lilly Scholars



MSD OF NORTH POSEY COUNTY STEM LEADERS

Elementary Schools

Engineering/Stem Curriculum



PreK:	PLTW Matter: Floating & Sinking
Kindergarten:	PLTW Structure and Function: Exploring Design PLTW Pushes & Pulls Picture Perfect STEM
First Grade:	LTW Light & Sound PLTW Light: Observing the Sun, Moon, and STARS Picture Perfect STEM
Second Grade:	PLTW Materials Science: Properties of Matter PLTW Materials Science: Form & Function Picture Perfect STEM
Third Grade:	PLTW Stability & Motion: Science of Flight PLTW Stability & Motion: Forces & Interactions Code.org
Fourth Grade:	PLTW Energy: Collisions PLTW Energy: Conversions Code.org/CS First
Fifth Grade:	PLTW Robotics & Automation Code.org/CS First
Sixth Grade:	PLTW Energy and the Environment Code.org/CS First

Flying / Coding Drone Coming Soon!

NPJHS

Engineering Curriculum

Grade 7:

Tech I -- Design & Modeling Projects:

- Students will design and fabricate a foot orthosis
- Create parametric models using SketchUp
- Create 3-D puzzles
- Design and fabricate a golf tee peg game

PLTW Flight & Space- *Coming soon!*

PLTW Green Architecture- *Coming soon!*

CODELICIOUS/CS First



Grade 8:

PLTW Tech II -- Design & Modeling Automation & Robotics

Projects:

- Construct floor skimmers
- Use 3-D software to create puzzles
- Fabricate a mini marshmallow launcher
- Program code Robot C
- Fabricate devices using Vex Robotics System (mechanical toys, windmills, conveyors, and rovers)
- Design programs integrating sensors in machines

CODELICIOUS/CS First

Flying / Coding Drone Coming Soon!

NPHS

ENGINEERING COURSE WORK

Engineering

PLTW Intro to Engineering Design*

Duel Credit- IVY Tech DESN 101 (3), 113 (3)

PLTW Principles of Engineering

Duel Credit Ivy Tech DESN 104 (3)

PLTW Digital Electronics

Duel Credit Ivy Tech EECT 112 (3)

* Possible *Autodesk Inventor* certification

Computer Science (A)

Computer Illustration & Graphics

Duel Credit Ivy Tech VISC 115 (3)

Computer Science I (Programming)

Computer Science II (Programming)

Computer Science A AP

Computer Science (B)

Interactive Media

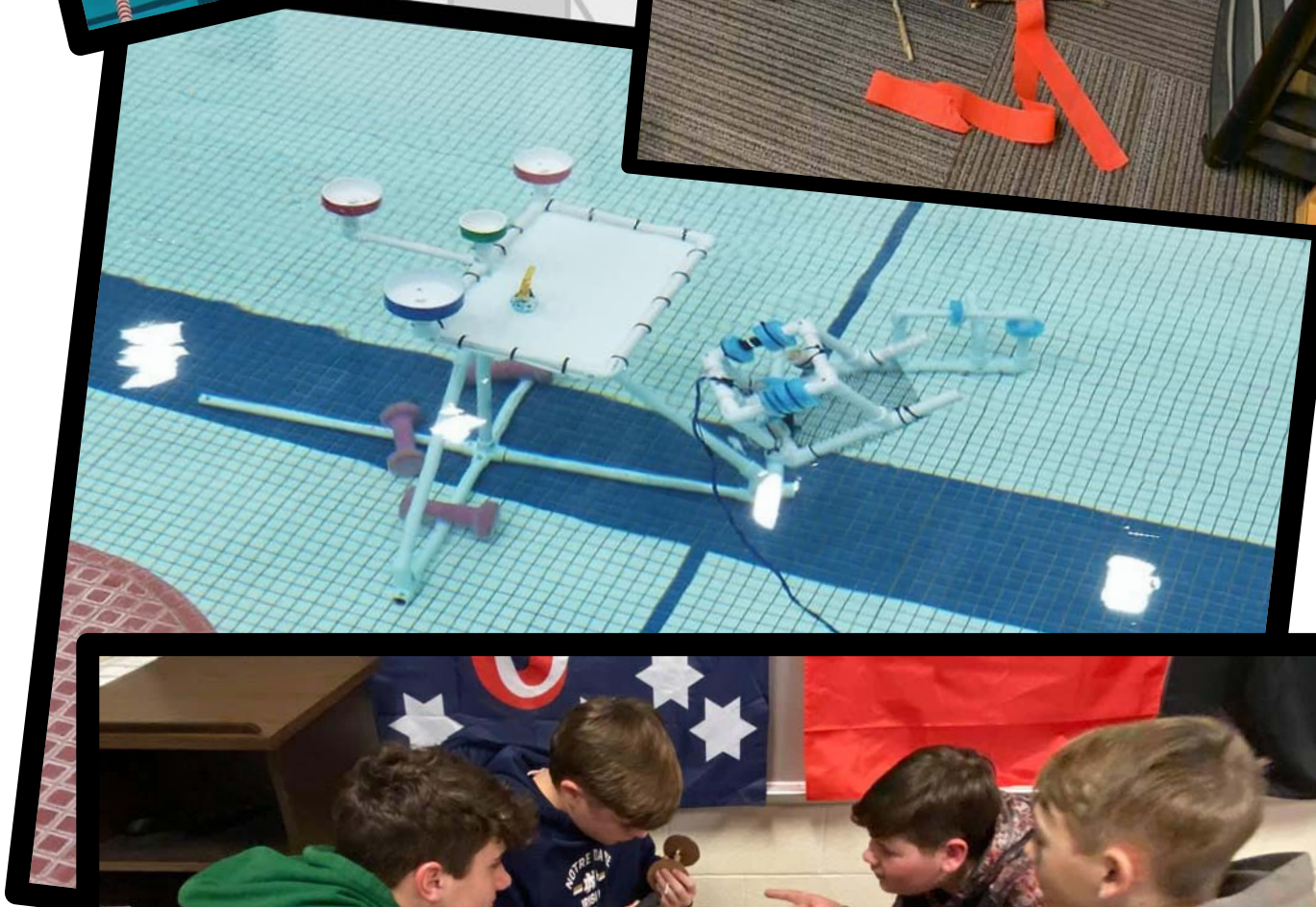
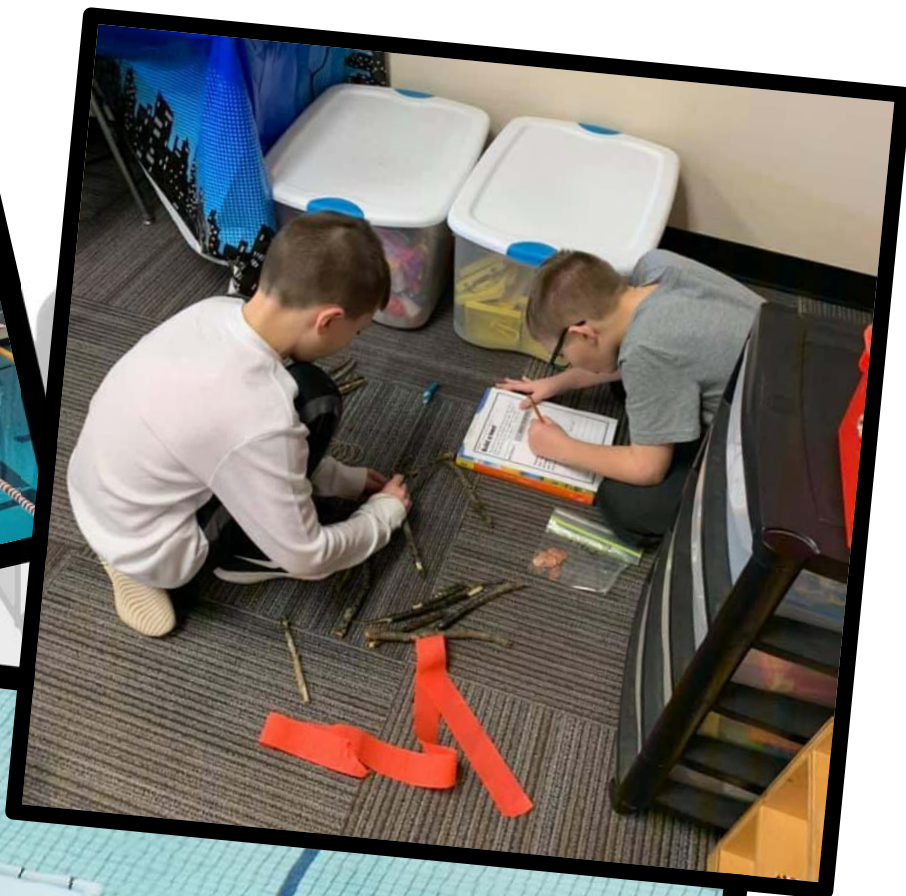
Digital Applications & Responsibility

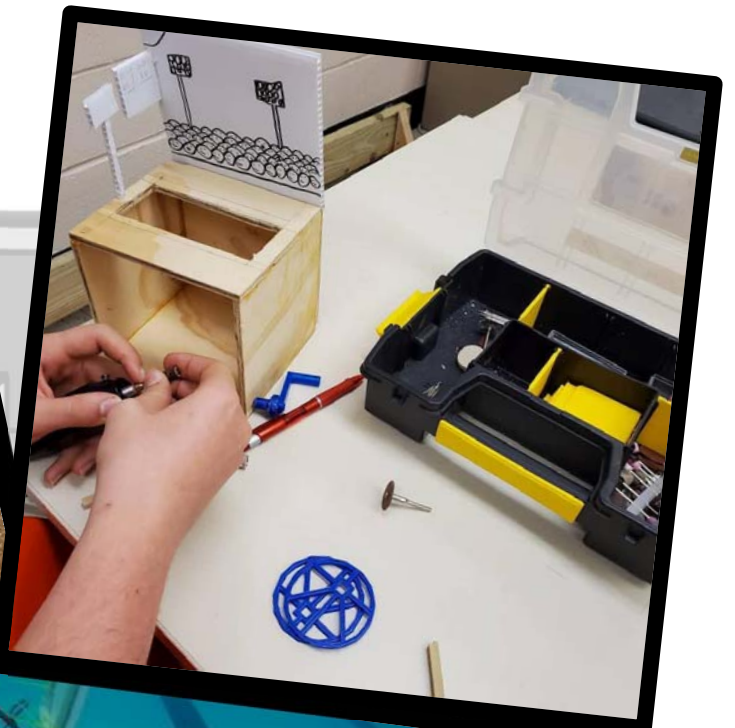
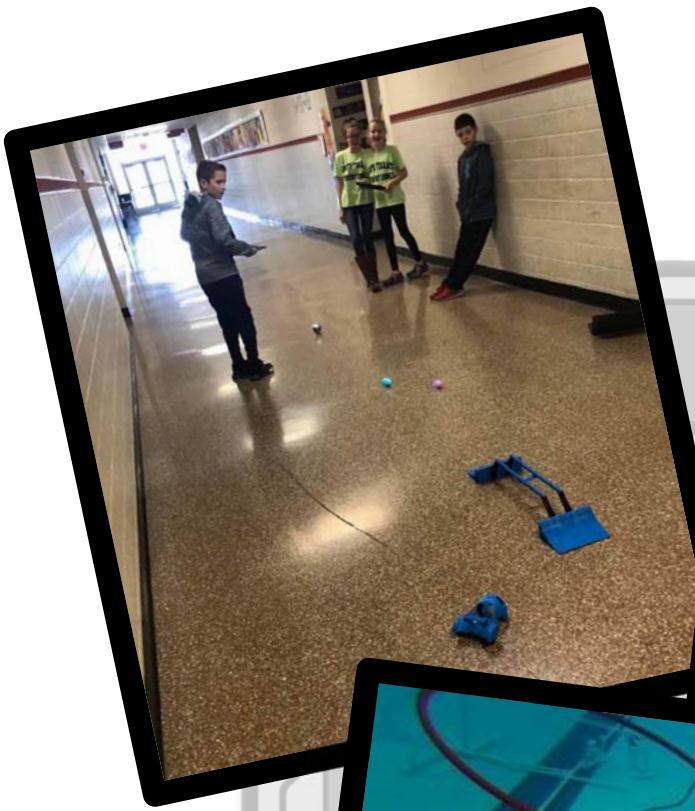
Duel Credit Ivy Tech CINS 101 (3)

Web Design I

Web Design II

Flying / Coding Drone Coming Soon!







MSD of North Posey County	812-874-2243
North Posey High School	812-673-4242
North Posey Junior High School	812-673-4244
North Elementary School	812-874-2710
South Terrace Elementary School	812-985-3180