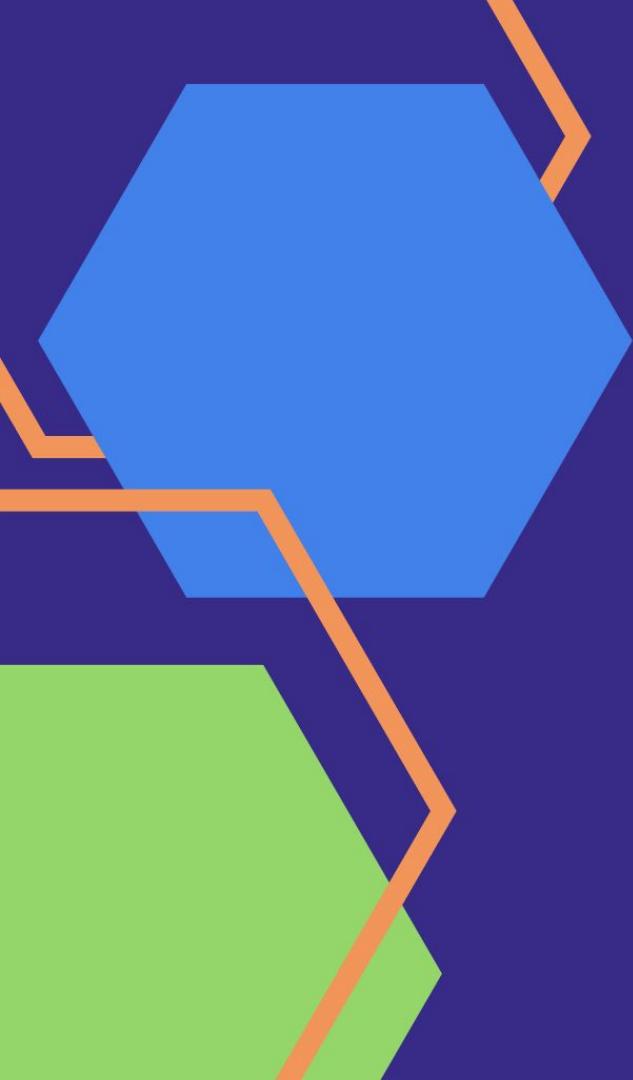


A collage of three photographs illustrating STEM activities. The top-left photo shows two students working on a LEGO project at a table. The bottom-left photo shows students using microscopes in a lab setting. The right photo shows students working on laptops and small projects at a table.

SCRANTON STEMM ACADEMY

What is it?
Location
Course Offerings
Technologies
Application Process

¿Qué es?
Ubicación
Ofertas de cursos
Tecnologías
Proceso de solicitud



STEMM Academy

Science, Technology, Engineering,
Mathematics, and Medical

Ciencia, Tecnología, Ingeniería,
Matemáticas y Medicina

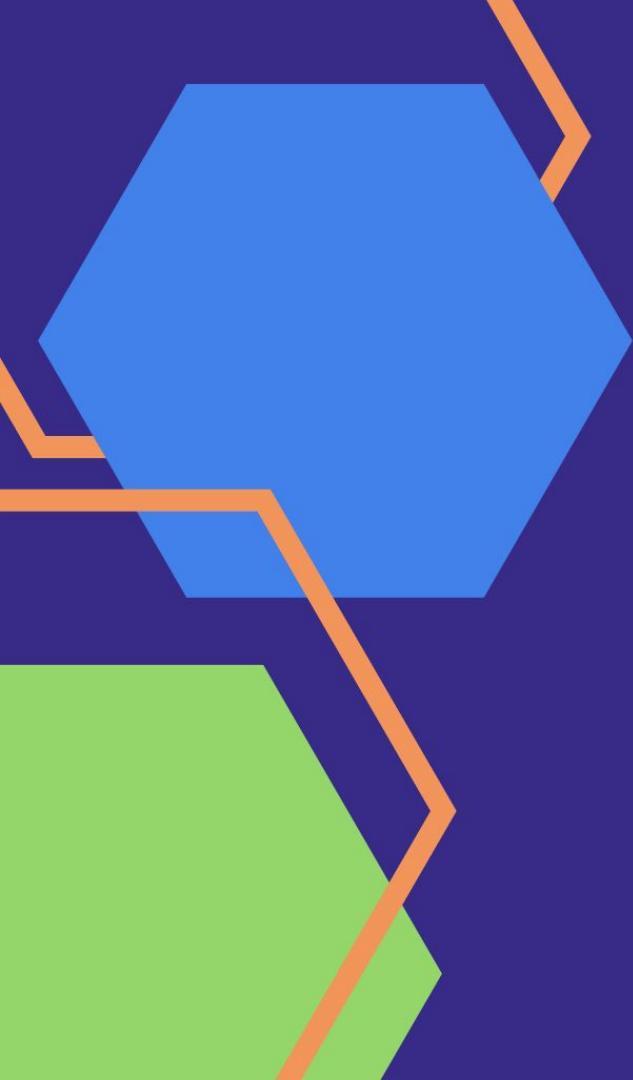
Pathways in / Carreras en:

- Computer Science / Ciencias de la Computación
- Engineering / Ingeniería
- Medical / Médico



More About the STEMM Academy

- It is an **all day program** for students in Scranton, PA
Es un programa de todo el día para estudiantes en Scranton, PA.
- There is an **application process** as space is limited
Hay un proceso de solicitud ya que el espacio es limitado.
 - **Applications are due Friday, February 16th, 2024**
Las solicitudes deben presentarse el viernes 16 de febrero de 2024.
- The STEMM Academy is **located at Scranton High School**
La Academia STEMM está ubicada en Scranton High School
- STEMM Academy will follow the **high school bell schedule**
La Academia STEMM seguirá el horario de clases de la escuela secundaria



More About the STEMM Academy

- **Transportation** available - must meet district requirements
Transporte disponible: debe cumplir con los requisitos del distrito
- Participate in sports/ activities at their **home school**
Participar en deportes/actividades en su escuela de origen
 - The STEMM Academy plans to offer after school clubs and activities
La Academia STEMM planea ofrecer clubes y actividades extracurriculares

Goals for the Program

1. Offer the strongest possible academic background through a stimulating academic environment and a challenging, rigorous curriculum that is **student-centered** and focused on **project-based learning**

Ofrecer la formación académica más sólida posible a través de un entorno académico estimulante y un plan de estudios exigente y riguroso centrado en el estudiante y centrado en el aprendizaje basado en proyectos.
2. To be the regional leader in STEMM education by offering **cutting edge technology**, **flexible learning spaces**, and student engagement through community outreach projects

Ser el líder regional en educación STEMM al ofrecer tecnología de vanguardia, espacios de aprendizaje flexibles y participación de los estudiantes a través de proyectos comunitarios.

STEMM Offers / STEMM OFRECE

Technology Skills
Habilidades tecnológicas

Problem Solving & Innovation
Resolución de problemas e innovación

Unique Opportunities for Teamwork
Oportunidades únicas para el trabajo en equipo

Project Management Skills
Habilidades de administración de proyectos

Project Based Learning / Aprendizaje basado en proyectos

Students are presented with real-world problems and through the process of questioning, research, and iteration, students develop skills in critical thinking, collaboration, and leadership that are necessary for success beyond the classroom.

A los estudiantes se les presentan problemas del mundo real y, a través del proceso de cuestionamiento, investigación e iteración, los estudiantes desarrollan habilidades de pensamiento crítico, colaboración y liderazgo que son necesarias para el éxito más allá del salón de clases.



7th/ 8th Grade STEM ELA STEM ELA de 7.º/ 8.º grado



- Larger Focus on:
Mayor enfoque en:
 - Soft Skills such as Communication
Habilidades sociales como la comunicación
 - Research / Investigar
 - Comparative Analysis / Análisis comparativo
 - Proposal Writing / Redacción de propuestas
 - Peer Review / Revisión por pares

STEM Lab

- Grades 7-12
 - Project Based Learning
 - Cross-Curricular Lessons
 - Real Life Connections
 - Career Exploration
-
- Grados 7-12
 - Aprendizaje a base de proyectos
 - Lecciones intercurriculares
 - Conexiones de la vida real
 - Exploración de carreras

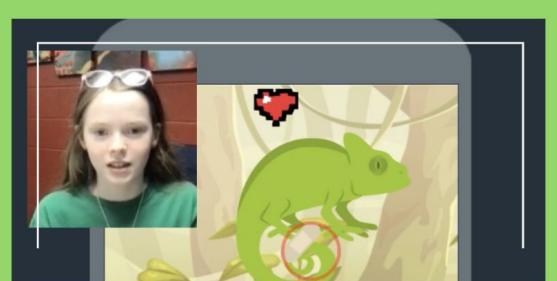


7th Grade STEMM Exploration Courses



ELECTRICAL 3D ARTISTS

*ELECTRICITY & CIRCUITY
SPATIAL VISUALIZATION
3D MODELING & PRINTING*



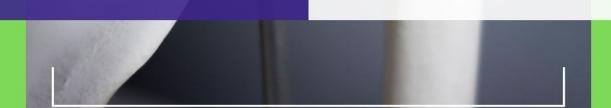
VIDEO GAME DEVS

*COMPUTING LOGIC
CODING & CONDITIONALS
GAME MECHANICS DEVELOPMENT*



SPORTS MEDICINE

*EXERCISE PHYSIOLOGY
NUTRITION
INJURY PREVENTION*



8th Grade STEMM Exploration Courses



MEDICAL DETECTIVES

PROJECT LEAD THE WAY

DISEASE DETECTIVES

MYSTERIES OF THE HUMAN BODY



APP PROGRAMMING

CODING / PROGRAMMING

DEBUGGING

PROTOTYPE DEVELOPMENT



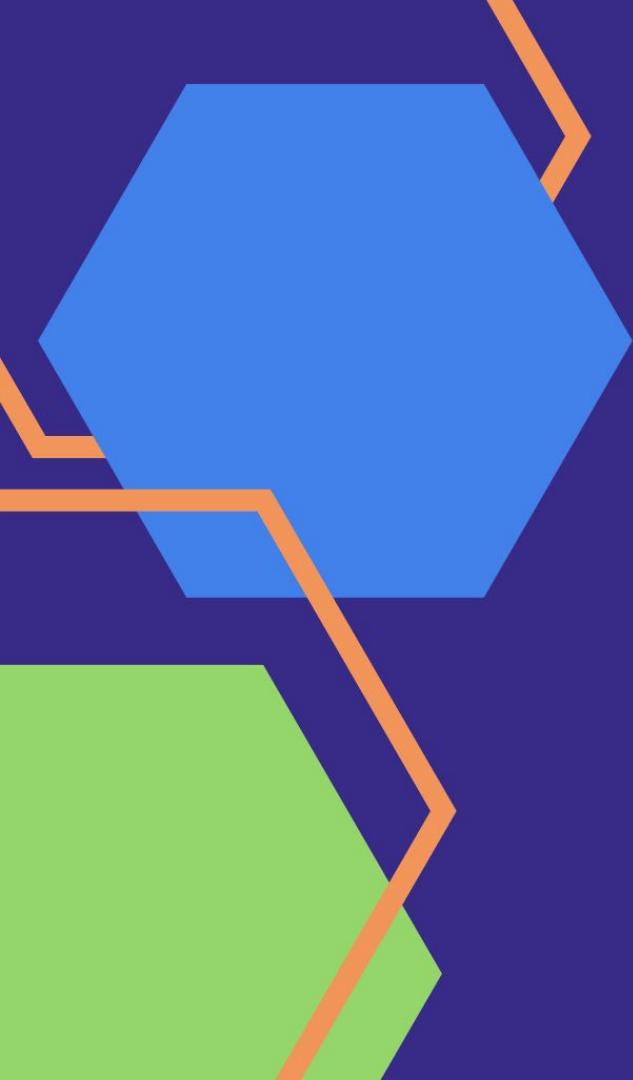
GREEN ARCHITECTURE

PROJECT LEAD THE WAY

ARCHITECTURAL BASICS

SUSTAINABLE ARCHITECTURE





School Year 2022-2023 / Año Escolar 2022-2023

7th Grade / Séptimo grado

STEM ELA 7

Pre-Algebra/ Accelerated Math

Science 7 / Ciencia 7

STEM Lab / Laboratorio STEM

Lunch / Almuerzo

World Cultures & Geography II / Culturas del Mundo y
Geografía II

Sports Medicine / Medicina deportiva

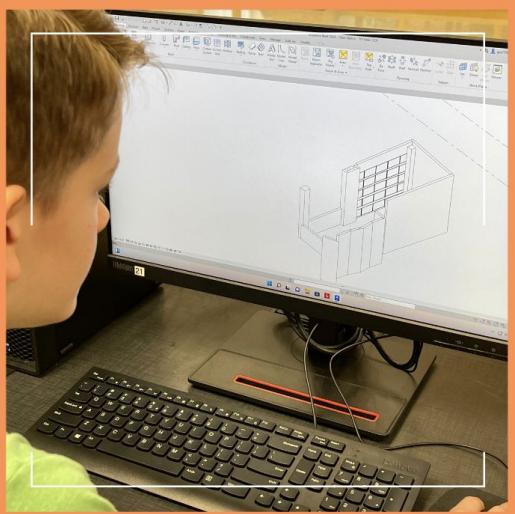
Physical Education / Educación Física

Video Game Devs / Desarrolladores de videojuegos
3D Artists / Artistas 3D

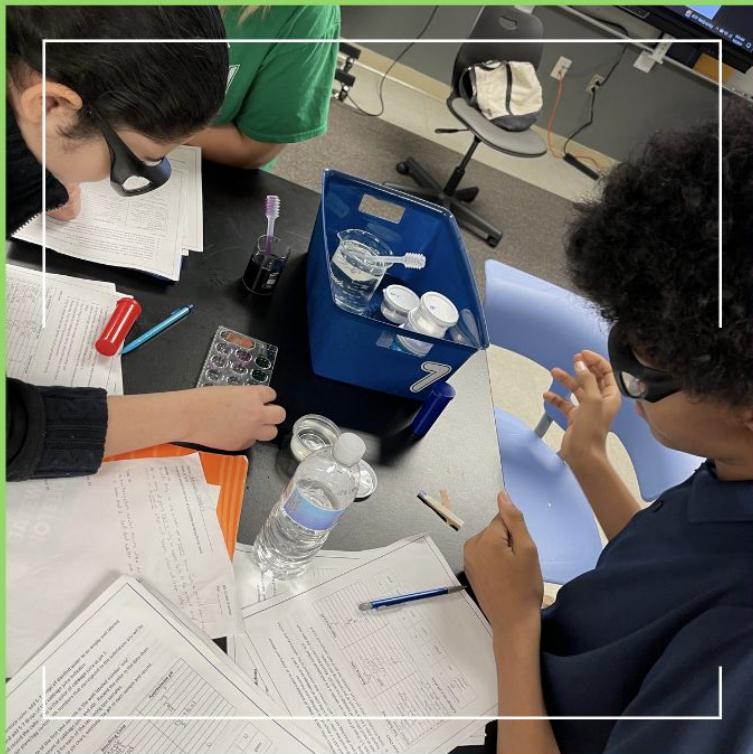
Project Based Learning



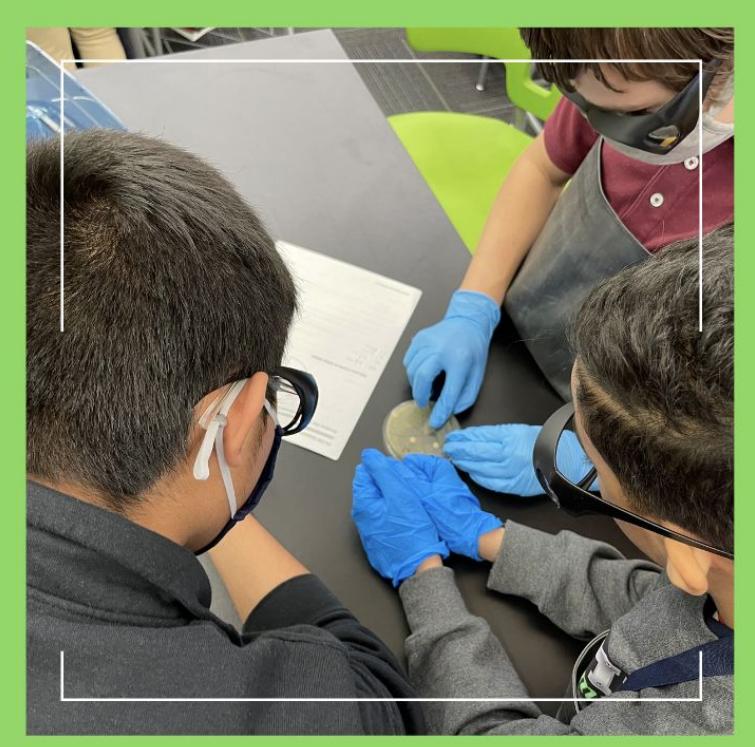
Project Based Learning



Project Based Learning



Project Based Learning



Some of our “other” STEMM Students...



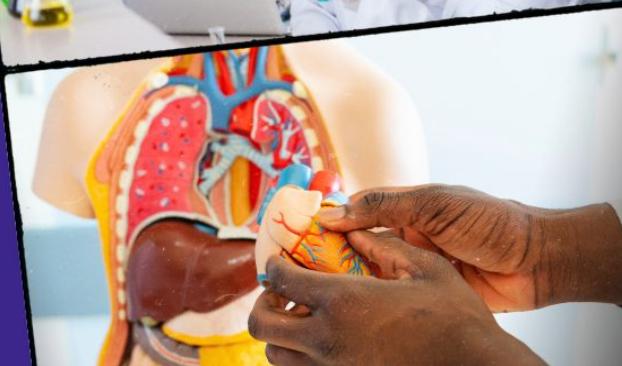
MEDICAL ELECTIVES

**PLTW PRINCIPLES OF
BIOMEDICAL SCIENCE**

**PLTW MEDICAL
INTERVENTIONS**

HUMAN PHYSIOLOGY

AP PSYCHOLOGY



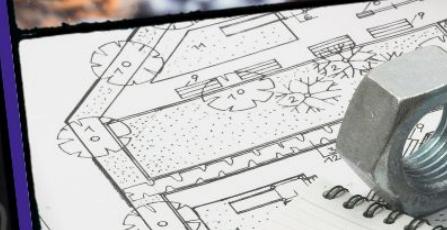
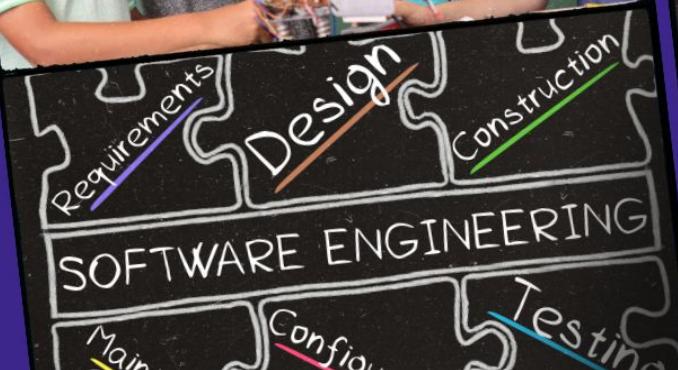
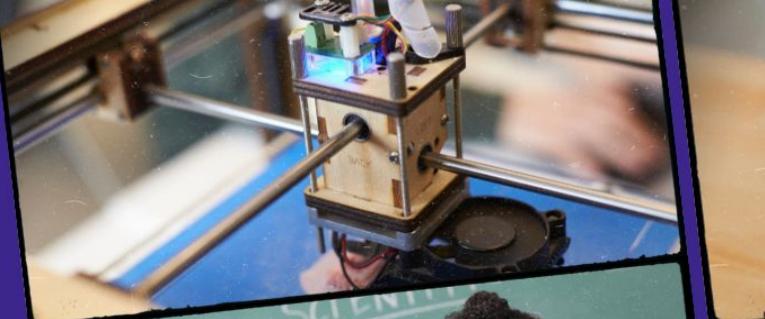
ENGINEERING ELECTIVES

PLTW INTRODUCTION TO ENGINEERING

PLTW PRINCIPLES OF ENGINEERING

INTRODUCTION TO ARCHITECTURE/CAD

PLTW DIGITAL ELECTRONICS



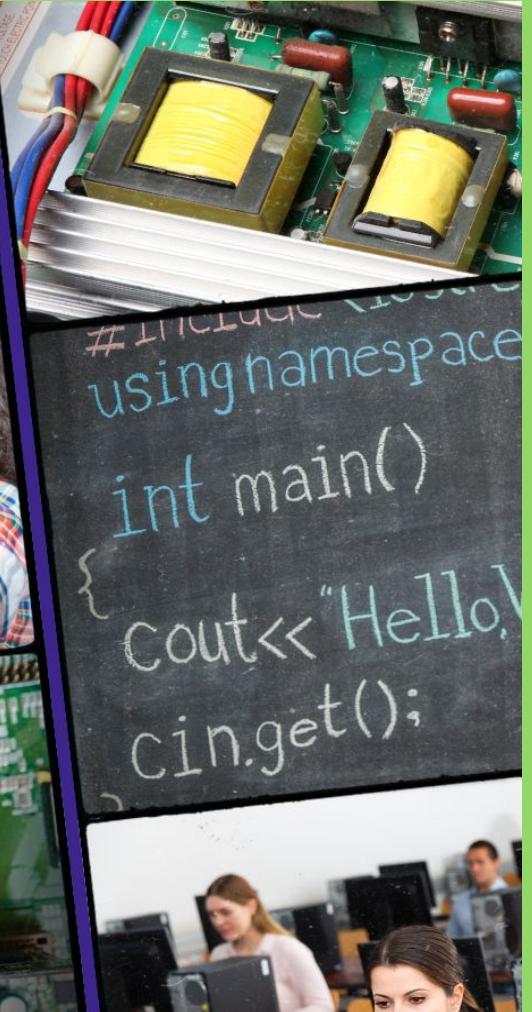
COMPUTER SCIENCE ELECTIVES

WEB DEVELOPMENT

COMPUTER LANGUAGES

AP COMPUTER SCIENCE A

**INFORMATION AND
CYBERSECURITY**



After School Programs

Pennsylvania Junior Academy of Science
Bookworms
Girls in STEM

DIGITAL ART



ROBOTICS CLUB



0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 1 0 1 1 0 0 0 1 0 1 1 0 0 0 0 1 0 0
1 0 1 0 1 0 0 1 0 1 1 0 0 0 0 1 0 1 0
1 1 1 0 1 0 0 1 1 0 1 0 0 1 1 0 1 0 0
0 0 1 1 0 1 0 1 0 1 1 0 1 0 0 1 1 0 1
0 0 0 1 0 1 1 0 0 0 1 0 0 1 0 0 1 0 1 1 0
0 1 0 0 1 1 1 0 1 0 0 1 1 1 1 0 1 0 0 1 1 1
Vex Robotics and RADC Drone
Competitions

GAMING CLUB



Modding, Challenges, Speed Runs,
Survival & Creative Modes



Application Process

Prerequisites:

- Recommended for Pre-Algebra in 7th Grade (Strongly Recommended)
All students who are interested are encouraged to apply!

Students who do not get accepted may be placed on a waitlist based on total score. Pending availability, those on the waitlist may be offered an opening prior to the first day of school each year.

STEM Application Rating System*

QUALIFIER	POINTS
STEM Teacher Recommendation/ Evaluation	10
5th Grade's PSSA Math and Reading Scores	20
Project Based Assessment	20
School Attendance	10
Discipline History	10
Interview or Essay**	10

*Scores will not be released and only used in the event there are more applicants than enrollment openings.

**To be used only in the event of a tie for acceptance

Website
stemm.scrsd.org

Thank You!!!