



EHRMAN CREST

ELEMENTARY/MIDDLE SCHOOL



Grand Opening & Ribbon Cutting

August 22, 2022



The circular ramp teaches students about complex shapes and construction geometry. The ramp graphics are used to explain derivation of curving geometry.

THE OPENING OF EHRMAN CREST ELEMENTARY/ MIDDLE SCHOOL IS EQUALLY AS IMPORTANT AS IT IS EXCITING.



This educational facility will serve as a model for others to come in demonstrating why physical learning environments play a key role in educational outcomes. As scientific data has shown, students who study in dynamic and positive learning spaces exhibit increased motivation, engagement and content retention.

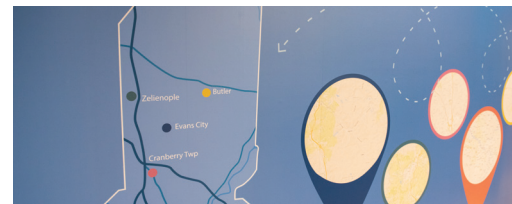


So, how did we create learning environments to be more compelling, engaging and successful for students? And how did learning environments like a children's museum play a part?

Seneca Valley School District is providing the answer to these questions with its dynamic new Ehrman Crest Elementary/Middle School, grades K-6. The project united the District and the Children's Museum of Pittsburgh in a planned effort to advance bold new opportunities for school design.

Ehrman Crest models exciting new ideas around how corridors and walls are used; how the building and surrounding natural environment can be teaching tools; how adaptability allows for constant curation of physical learning spaces; and how space can take students on learning journeys. All these new measures are introduced at no added project costs — providing creative environments without budget challenges.

Ultimately, you will find the building's learning spaces are compelling, relevant and engaging for students, especially when teachers and students are empowered to curate their own experiences and learning spaces.

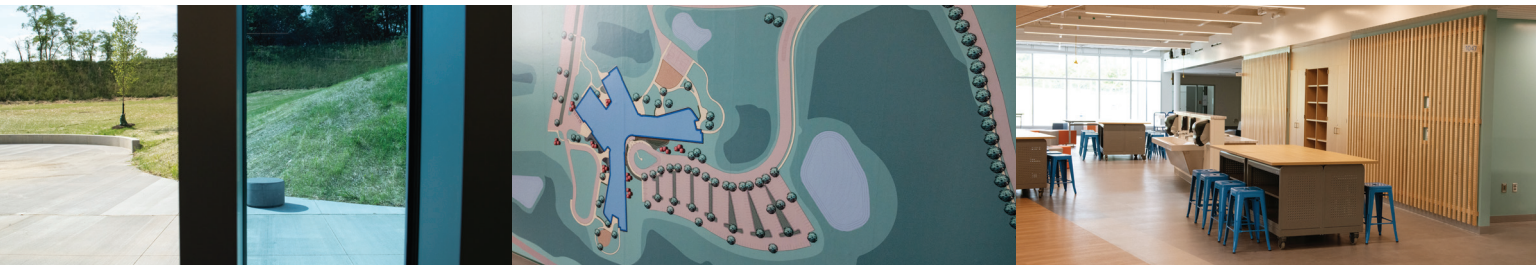




EHRMAN CREST LEARNING ELEMENTS



The District installed a time capsule with memorabilia from Evans City School. This can be seen in the interior wall deconstruction showcase located in the sixth-grade hallway.



- Canopy columns show two different measurements of weight in pounds and in Kips (units of force) to show the different loading capacities of each column (straight or angled) which helps in math on conversions.
- A Pennsylvania State map is in the third-grade area; this was planned because it's part of the curriculum.
- The classroom using geothermal was created to showcase another way of heating and cooling a space.
- Each wing and level has its own different floor patterns running down the center. Each pattern is equivalent to each grade level. Another example is the Fibonacci Sequence, a mathematical sequence that is also used for data structure, algorithms and graphs.
- Energy dashboard is a program that allows kids to see real-time data of how resources are being used throughout the building.
- The school site map in the middle school dining area is a magnetic surface to allow the students to interact with different activities and animals around the school site.
- The sundial floor pattern is to allow the students to mark and locate the sun's position in different seasons/times of the year.
- The visible mechanical closet is a new way of seeing the inner workings of the building and what it takes to make a building work and function.
- The interior wall deconstruction piece showcases the different building elements that make up a wall system.
- The rooftop garden and solar panels both allow the students to go outside and explore how things are grown, and how energy is collected and reused.



The mechanical closet will feature displays and graphics that will teach condensation, evaporation, conduction and convection.

FAST FACTS



830

Design Days



200,000

Total Square Footage



7,500 yards

Concrete

Sprinkler Pipe – **12,000 ft.**

Power Wire – **357,800 ft.**

Cubbies – **1,056**

Toilets – **125**

**790**

Construction Days

**\$60 million**

Total Project Cost

**1,400**

Student Capacity

**650,000 cubic yards**

Dirt Moved

**714 tons**

Steel

**22,500 sq. ft.**

Glass

Gas Pipe – **1,400 ft.**Copper Waterline – **12,200 ft.**Light Fixtures – **3,450**MC Cable – **112,000 ft.**Low Voltage Wire – **187,950 ft.**Cabinet – **4,288 ft.**Lockers – **654**TVs/Interactive Displays – **154**Sinks – **115**Drinking Fountains – **51**Tables – **1,663**Chairs – **3,884**

Ehrman Crest is the first school in the state of Pennsylvania to have a severe weather shelter.



Ehrman Crest Elementary / Middle School

2070/2070A Ehrman Road

Cranberry Township, Pa. 16066

EC Elementary Office: (724) 538-3680 or (724) 776-3530

EC Middle School Office: (724) 538-8800 or (724) 776-3330

2022 Seneca Valley Board of Directors

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Dr. Matt McKinley – *Assistant Superintendent, 7-12 Instruction*

Dr. Marie Palano – *Assistant Superintendent, Curriculum & Assessment*

2022 Ehrman Crest Elem./MS Administration

Ms. Lauri Pendred – *Ehrman Crest Elementary School Principal*

Dr. Andrew Teti – *Ehrman Crest Elementary School Assistant Principal*

Mr. Tim Eiler – *Ehrman Crest Middle School Principal*

Ms. Bridget Miller – *Ehrman Crest Middle School Assistant Principal*

Seneca Valley Buildings and Grounds Director

Mr. Randy Miller

Architect

CannonDesign

Design Teams

CannonDesign

Barber & Hoffman; Children's Museum of Pittsburgh; Herbert, Rowland & Grubic, Inc.; Tower Engineering

MeTEOR Education

Owner's Representative

Eckles Construction Services

Construction Contractors

11400, Inc.; CH&D Enterprises, Inc.; Hranec Mechanical Contractors; Merit Electrical

Group; Northeast Interior Systems; Rycon Construction, Inc.; Vrabel Plumbing

Photo Credit

Bill Paterson