Creating Career Pathways Though Curriculum Connections in Math & Science Classrooms

https://digitalcommons.imsa.edu/pfs_pr/45/

by

Kelly W. Remijan, PhD
Remote Professional Development and Curriculum Specialist
Illinois Mathematics and Science Academy (IMSA) – Center for Teaching & Learning
Remote Office Located in Belleville, IL

Email: kremijan@imsa.edu LinkedIn: https://www.linkedin.com/in/kellyremijan/ Twitter: @Teachers4STEAM

Objective: Pathways to Work Partners will discover how the Illinois Math & Science Academy (IMSA) - Center for Teaching & Learning is helping to promote career pathways and curricular connections through the professional development of teachers and the creation and integration of classroom to career connections related to Prek-12th grade curriculum focused on STEM concepts.

Curriculum and Corresponding Professional Development Opportunities for Teachers Provided by IMSA
FOR MORE INFORMATION, CHECK OUT: www.IMSA.edu/Educator

Little STEAMers (Prek)
*Originally funded by Boeing
  o Pixel Art (Video Game Designer)
  o Ramp Racing (Surveyor)
  o Carry and Construct (Engineer or Construction Worker)
  o Playing with Code (Computer Programmer)
  o Buildings Around the World (Engineer)
  o Down to the Details: Blueprints (Architect)

Math at Work: Career Challenge (5th-8th Grade)
* Originally funded by the Illinois State Board of Education

FUSION 3.0: Future Highway (7th Grade)
* Funding provided by the Illinois Tollway

Virtual Aviation Day for Educators (K-12)
* Funding provided by Scott Air Force Base with support from Dr. Cindy Doil, Scott AFB School Liaison Officer

Professional Development Learning Experiences for Teachers
* Maximizing the M in Agronomic STEM (5th-12th grade)
* Fighting Fire with STEM (3rd-5th grade & 6th-8th grade)
* Naval Engineering (4th-5th grade)
* Code of the Wild (K-2nd grade)

Instructional Partnering within the Classroom in Cooperation with Southwestern Illinois College
* Math & Machining (5th-12th grade)

Presentations at Conferences, Teacher Institutes, Professional Development Days, etc.
* Aviation Integration: Topics, Tech, & Career Connections (https://digitalcommons.imsa.edu/pfs_pr/41/)

Teaching Teachers the Trades: Hands-On Learning Experiences to Connect Math Concepts to Careers (5-12)
* In Partnership with Southwestern Illinois College (Machining)
* In Partnership with R3 Development (Construction)

NOTE: Grant proposal under review by the Scott AFB STEAM Advisory Council