



Creating Career Pathways Through Curriculum Connections in Math & Science Classrooms
https://digitalcommons.imsa.edu/pfs_pr/45/

by

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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

- Pixel Art (Video Game Designer)
- Ramp Racing (Surveyor)
- Carry and Construct (Engineer or Construction Worker)
- Playing with Code (Computer Programmer)
- Buildings Around the World (Engineer)
- 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.

- * Meaningful Math: Activities, Applications, & Career Connections (https://digitalcommons.imsa.edu/pfs_pr/39/)
- * 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