

STEM Matrix and Activity Index



STEM education is an approach to teaching and learning that integrates the content and skills of science, technology, engineering and mathematics. In the chart listed below, Innovation activities have been correlated to STEM skills.

Activity

	Science				Technology				Engineering					Math			
	Science as Inquiry	Energy Sources, Forms and Transformations	Science and Technology	Personal and Social Perspectives	Productivity Tools	Communication Tools	Research Tools	Problem-solving and Decision-making Tools	Historical Perspective	Design and Modeling	Invention and Innovation	Test, Design and Troubleshooting	Use and Maintain	Numbers and Operations	Measurement	Data Analysis and Probability	Connection to the Real World
History of Electricity and Transmission			•	•		•	•		•								•
Renewable Energy Sources		•	•	•		•	•		•								•
Conventional Electric Power Generation Systems, Process and Fuel Sources		•	•	•		•	•		•								•
Conventional Electric Power Generation Pros and Cons		•	•	•		•	•		•					•			•
Energy for Electricity	•	•	•	•						•							•
The Transmission and Distribution Process	•	•	•	•	•	•	•			•				•	•		•
The Smart Grid			•	•		•	•		•								•
Your State's Electrical Generation			•	•		•	•		•								•
Classroom Comfort and School Lighting Audit	•	•	•	•	•	•	•	•	•					•	•	•	•