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.

Conventional Electric Power Generation Systems, Process

Conventional Electric Power Generation Pros and Cons

Alternative and Renewable Energy Sources

Greenhouse Gas Emissions and Your Local Fuel

Westinghouse versus Edison – AC versus DC
The Transmission and Distribution Process

History of Electricity and Transmission

Transmission Heat and Temperature

Your State's Electrical Generation

Your Local Area Fuel Mix

The Smart Grid

What's in a Watt?

Food for Humans

Surveying Electrical Safety
When Lightning Strikes

Activity

and Fuel Sources

Energy for Electricity

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
	•	•	•		•	•		•								•
•	•	•	•						•							•
	•	•	•		•	•		•					•			•
	•	•	•		٠	•		•								•
		•	•		•	•		٠								•
		•	•		٠			•								٠
		•	•		•			٠		_	_					•
	-	•	•		٠	٠		٠								٠
	_	•	•		•	•		٠		_	_					•
	-	•	•		•	•		•								•
•	•	•	•		•	•		•	_	_	_			•		•
	_				•	•		•								•
				•	•	•				_	_				·	·
				•			•						•		•	
													•	•		•
	•			•	•		•						•		•	•

© 2020 National Energy Foundation

Classroom Comfort and School Lighting Audit