

Pathway for K-Gray Engineering Education



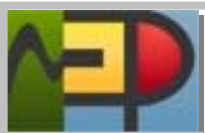
- Ed level: K-Gray Discipline: Engineering
- A collaboration to provide a comprehensive engineering portal for high-quality teaching and learning resources in engineering, computer science, information technology and engineering technology – the Engineering wing of NSDL. Start date: October 1, 2005.



<http://www.needs.org>



<http://www.teachengineering.com>



ENGINEERING PATHWAY

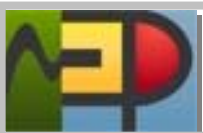
NSDL

- Your Portal to Resources for All Levels and Types of Engineering Education



K-Gray Engineering Pathway

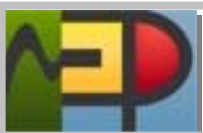
- TeachEngineering :
 - Jacquelyn Sullivan & Mindy Zarske— Univ. of Colorado at Boulder
 - René Reitsma, Oregon State University
 - Gary Ybarra & Paul Klenk, Duke University
 - Mike Mooney, Colorado School of Mines
 - Martha Cyr, Worcester Polytechnic Institute
- NEEDS – Higher Education
 - Alice Agogino, Jialong Wu, Andi Niess, Paul Mackinney, UC Berkeley
- Evaluation/ Sustainability
 - Joe, Tront, Virginia Tech
 - Nancy Van House, School of Information, UC Berkeley
 - Advisory Board





Project Goals are to:

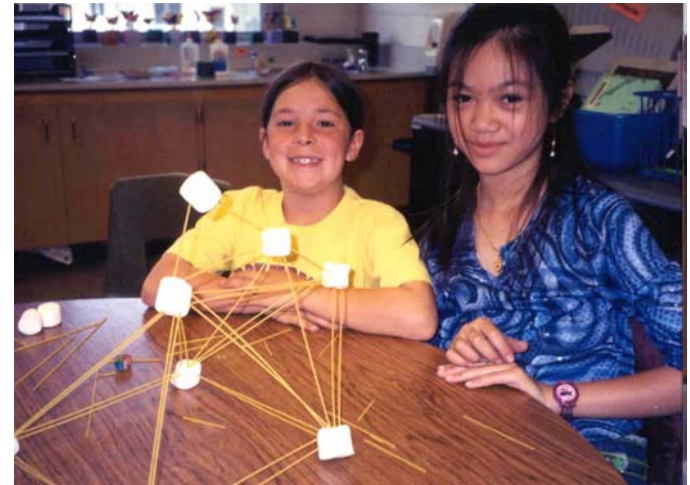
- 1) merge **NEEDS** and **TeachEngineering** into a unified K-Gray engineering educational digital library; 2) significantly grow high quality resources in the NSDL Engineering Pathway in a sustainable way; 3) align the unified curricular materials with appropriate undergraduate (Accreditation Board for Engineering and Technology - ABET criteria) and K-12 educational standards, 4) grow the participation of content providers and users; 5) enhance quality control and review protocols for Engineering Pathway content; and 6) create a nonprofit strategy and partnership for the sustainability.





TeachEngineering: K-12 Resources

- 13 subject areas (algebra, biology, chemistry, data analysis and probability, measurement, physical science, etc.)
- 26 Curricular units (themes or related lessons)
- 163 Lessons (focused topics)
- 327 Hands-on activities
- Living Labs – Portals to engineering data



NEEDS: Higher Ed/Professional Society Target Audiences



Search for Learning Resources:

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Search For Learning Resources

Search for learning resources to make your search results more relevant or a teacher looking for materials. Use the search fields to narrow your search. If you're a student in sixth grade or a teacher looking for materials, you might select "6-8" in the "Grade" field. Or you might select materials by a particular author or title. You must fill in at least one field.

Keyword(s):

Type of Learning Resource:

Grade:

Title:

Author / Creator:

Series:

Collection:

Publication Year:

Peer Reviewed:

- NEEDS is oldest educational digital library - operating since 1990
- NEEDS has aimed at higher education with 8,000+ learning objects and 3,000 registered users
- Accesses average 50,000 - 70,000 per month.

