USING TECHNOLOGY TO EXPLORE CAREERS IN ENGINEERING

VIRGINIA CAREER VIEW
2015 VIRGINIA CHILDREN’S ENGINEERING CONFERENCE
EXPLORE...EDUCATE...ENGAGE...
WE PUT IT ALL TOGETHER!
WWW.VACAREEVERVIEW.ORG
USING TECHNOLOGY TO EXPLORE CAREERS IN ENGINEERING

• Online

VIEW this slide show and more resources by going to www.vacareerview.org or Click here
WAYS TO USE TECHNOLOGY

- Research
- Develop Skills
- Creativity
- Resources
RESEARCH: CAREERS IN ENGINEERING

Putting the E in STEM:
VIEW Engineering Resources
- Every resource you can imagine from Virginia Career VIEW

VIEW Kid’s Search (K-5)
- Learn about Engineering Careers

STEM Career Cluster Page
- STEM Booklists
- Career Cluster Apps
- Activities
RESEARCH: CAREERS IN ENGINEERING

STEM START Ups:
• Created for professionals to jumpstart your STEM Program

VIEW Kids Engineering Page
• Email to parents
• Post on your website
• Use as an activity guide

Engineering Printables
• Print and Pass out
<table>
<thead>
<tr>
<th><strong>RESEARCH : WAYS TO PRESENT YOUR RESEARCH ABOUT ENGINEERING CAREERS</strong></th>
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<tbody>
<tr>
<td><strong>A Job For Me</strong></td>
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<tr>
<td>• Complete online or print</td>
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<tr>
<td>• Short career exploration report</td>
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<tr>
<td><strong>Career Count</strong></td>
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<tr>
<td>• 4 page book to print and create</td>
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<tr>
<td><strong>Career Journal</strong></td>
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<tr>
<td>• Print and Complete</td>
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<tr>
<td>• 5 open ended pages</td>
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<tr>
<td>• Meets 3rd-5th grade SOLs</td>
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SKILLS
-Explore and experience skills needed in engineering careers with Free Apps
FREE ENGINEERING APPS

Tinkerbox

- Hands on physics puzzler
- TinkerBox is a rich resource for kids to learn, practice, and apply physics and engineering principles.

Monster Physics Lite:

- A Kids building app that encourages play with physics principles while making your own inventions

Pettson’s Inventions Lite

- Solve 27 different inventions with drop and drag technology and trial and error.
Scratch Jr.

• FREE I-pad App
• Students ages 5-7
• Create interactive stories and games

Hopscotch

• Coding and programming for kids.
• Programming made easy
• No typing. No syntax errors. Just drag and drop blocks.
• Hopscotch is an intuitive, friendly programming interface designed for everyone.
ONLINE TECHNOLOGY PROGRAMS

Scratch

- Scratch is a free programming language and online community where you can create your own interactive stories, games, and animations.
ONLINE TECHNOLOGY PROGRAMS

Glogster

• Students
• Teachers- free edu basic
• Create your own virtual interactive posters called Glogs!
• Print or Display electronically

http://mseibert5.edu.glogster.com/exploereengineering kids/
DEVELOP CREATIVITY
Virginia Career VIEW’s

- Infusing Arts into Career Development
- Print booklet- 8 complete activities with SOLs included
- Electronic Version with Hotlinks
- Arts and Career Development Activity Planning Guide
  - Step by Step for planning, implementation, and evaluation
- Easy to use for engineering projects
• All of the resources you need to interest girls in STEM
  • Resources for Educators
  • Weekly Hands On Projects

Girlstart.org

NASA for Kids: Intro to Engineering
National Geographic’s Website for Kids and Educators

NASA K-4 Engineering Resources

Project based Engineering for kids:
• These project-based lessons focus on basic principles of physics, structural, and mechanical engineering. Physical models are built from a similar set of materials that can be easily sourced online (links are provided in-lesson).
GREAT AND SAFE ENGINEERING WEBSITES

- PBS Kids Go Sci Girls
- PBS Kids Design Squad
- PBS Kids Engineering Games

NASA Kids Club

- Orion Space Station Printables
- Space Racers Game
VIEW’S STEM TOOL KITS

- Includes Booklists
- Ideas to celebrate STEM
- Parent Student STEM Activities