Science, Technology, Engineering & Math Outreach Briefing

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STEM = Science, Technology, Engineering & Math

- Survey Results
- STEM Previous Focus
- Other Post STEM Activities
- USACE/DoDEA STEM Program
- Available Resources
- Future Focus
STEM Survey Results

44 Posts of 105 Posts responded (42%)

K-12 Outreach
- Participate: 95%
- Do Not Participate: 5%

College Outreach
- Participate: 73%
- Do Not Participate: 27%
STEM Previous Focus

- SAME Summer Camps
- West Point Bridge Design Contest
- Boy Scouts of America (merit badge program)
- Girl Scouts of America (engineering patch)
- MATHCOUNTS
- Future City Competition
- Learning for Life

Legend:
- Green: Participate
- Brown: Do Not Participate
Other Post STEM Activities

• Local, Regional & State Science Fairs
• Engineering Week Activities
• Mentoring Programs
• Robotics Teams
• Custom Post Programs
• Rocket Clubs, Lego Teams
• Scholarship Program
SAME DoDEA STEM Program

- Adds engineering design concepts to middle school curriculum
- USACE engineers and scientists collaborating with educators
- Explore STEM challenges related to the USACE mission
- Experience engineering applications through a realistic, hands-on, problem-solving approach
- 7 Pilot Middle Schools – (West Point, Ft. Benning, Quantico, Ft. Knox, Wiesbaden, Seoul, Camp Zama)
STEM Resources - Websites

- changetheequation.org/improving-philanthropy/stemworks
- asce.org/Outreach/K-12-Outreach/
- canstruction.org/junior/
- discovere.org/discover-engineering
- pbs.org/teachers/stem/
- sesamestreet.org/STEM
- anengineeringmind.com/
Designing the Future – ACEC  
[link](youtube.com/watch?v=EMZ8NfmccwA)

Intro to Engineering  [link](youtube.com/watch?v=qx9lLiAISAw)

The Little DVD of Civilization, Institution of Civil Engineers  [link](youtube.com/watch?v=fRgOkOfWBGg)

Engineering Skateboarding Shoes to Prevent Injury  [link](youtube.com/watch?v=NqtwluUSWyDc)

Discover Engineering - Purifying Water  [link](www.youtube.com/watch?v=GlI8haU0ePs)

Is Becoming an Engineer Worth all the Hard Work?  [link](youtube.com/watch?v=cQB03yOa6so)
STEM Future Focus

SAME STEM Website

- Videos
- Events
- Links
- Talking Points
- Post Examples
STEM Positive Impact

Resources  Repetition  Engagement
SAME STEM

Questions

Discussion

Suggestions