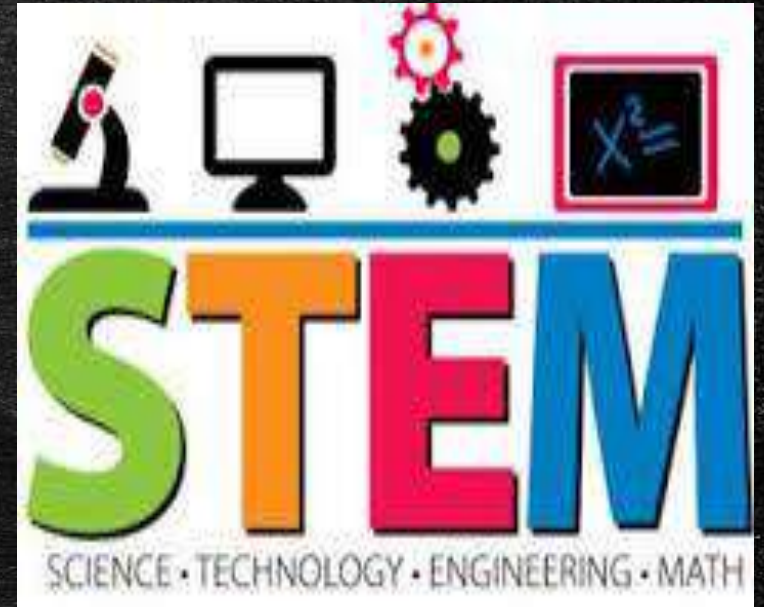


WB Area STEM Program

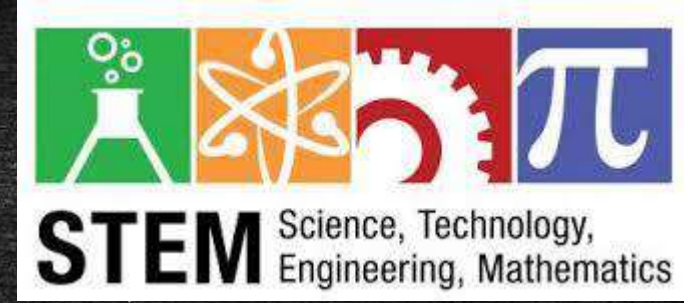
What is STEM?

- Science, Technology, Engineering, and Math
- Student centered learning
- Flipped classroom approach
- Group learning focused
- Project based learning
- Courses include: STEM History and STEM English





Is STEM for me?



- Do you want to be challenged by innovative lessons and projects?
- Are you willing to work hard - including time after school even beyond the school day?
- Do you like technology and are you willing to learn more about it?
- Are you self motivated?
- Do you work well with others in group learning settings?



Skills You Will Learn in STEM

- Critical Thinking Skills
- Oral Communication Skills
- Writing Skills
- Technology Skills
- How to work well with others
- How to meet deadlines
- How to participate in competitions and be successful



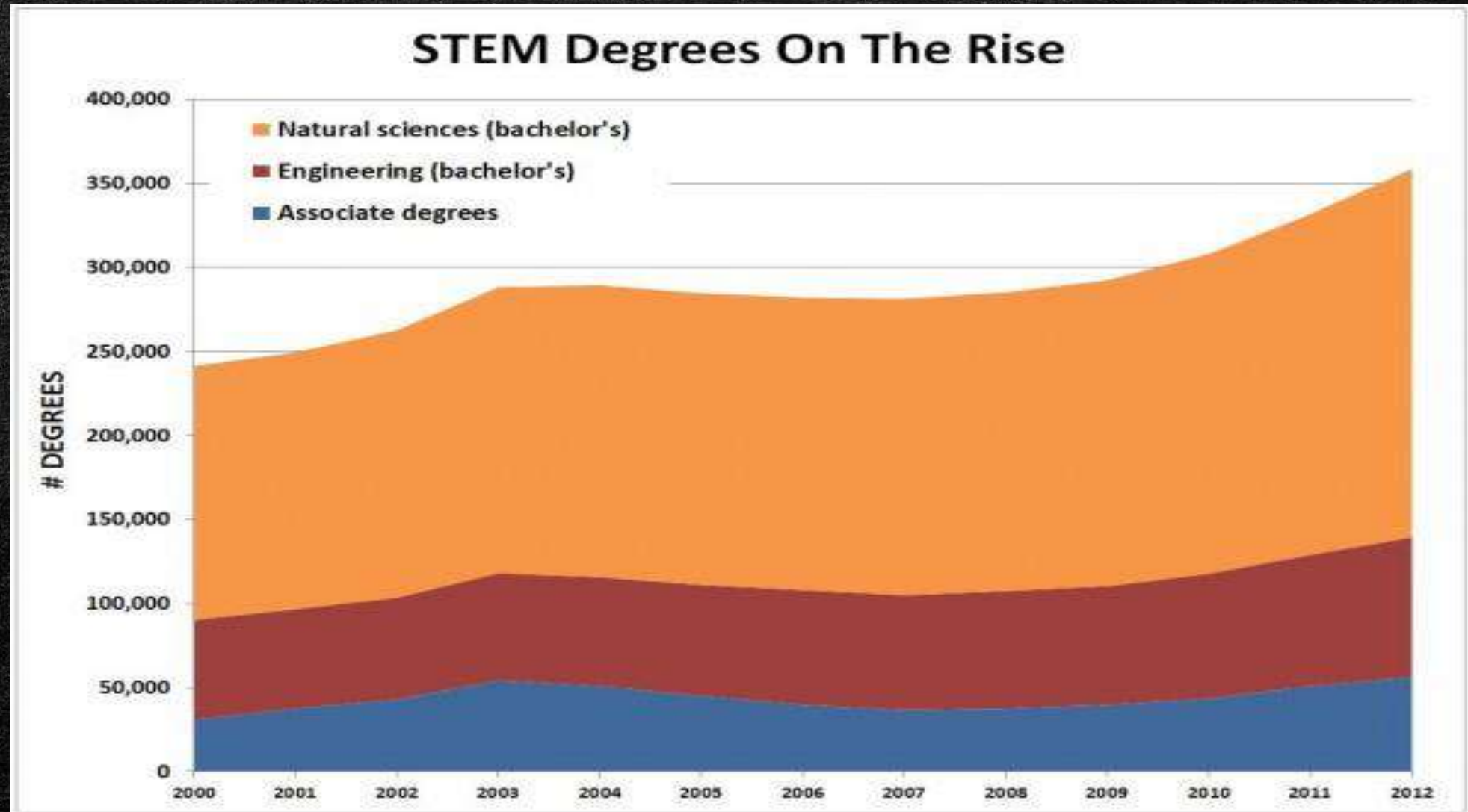


STEM's Future and You

- STEM is more than just technology and science...
- STEM focuses on skills that will help students in school, now, and in their future careers and college experiences
- You do not have to be interested in engineering to be in STEM
- STEM majors and jobs are the fastest growing, in the most demand, and the most available in the USA for young people

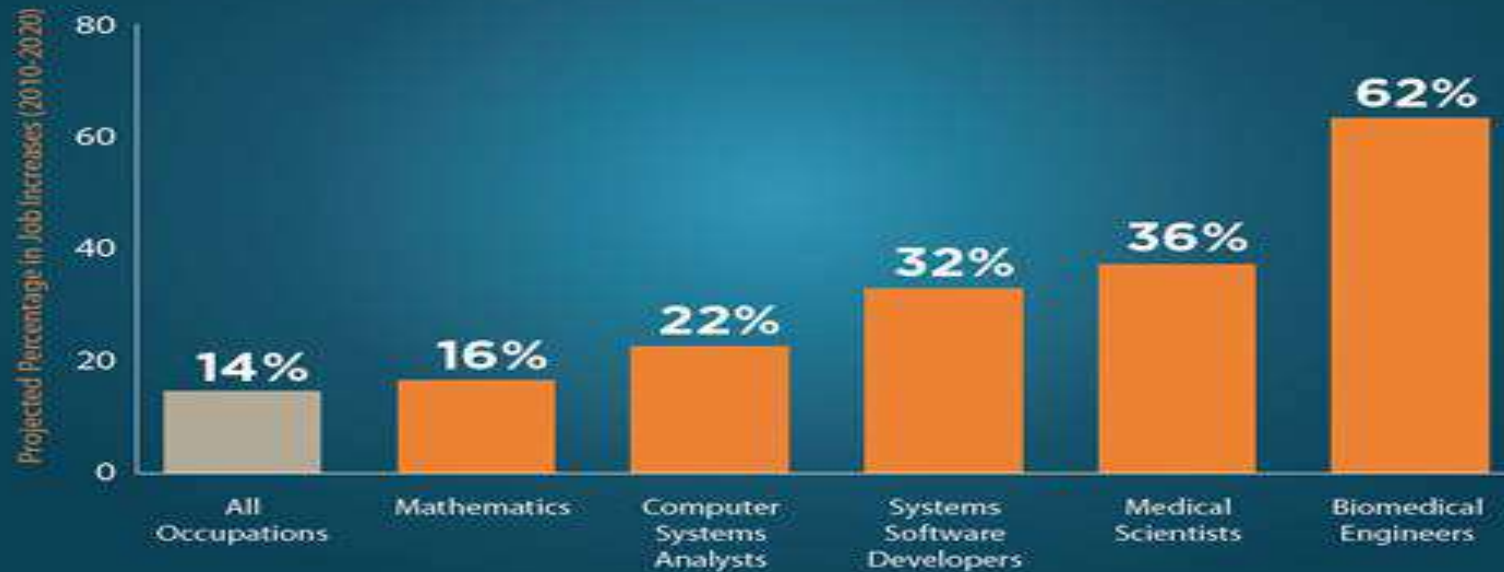


STEM DATA

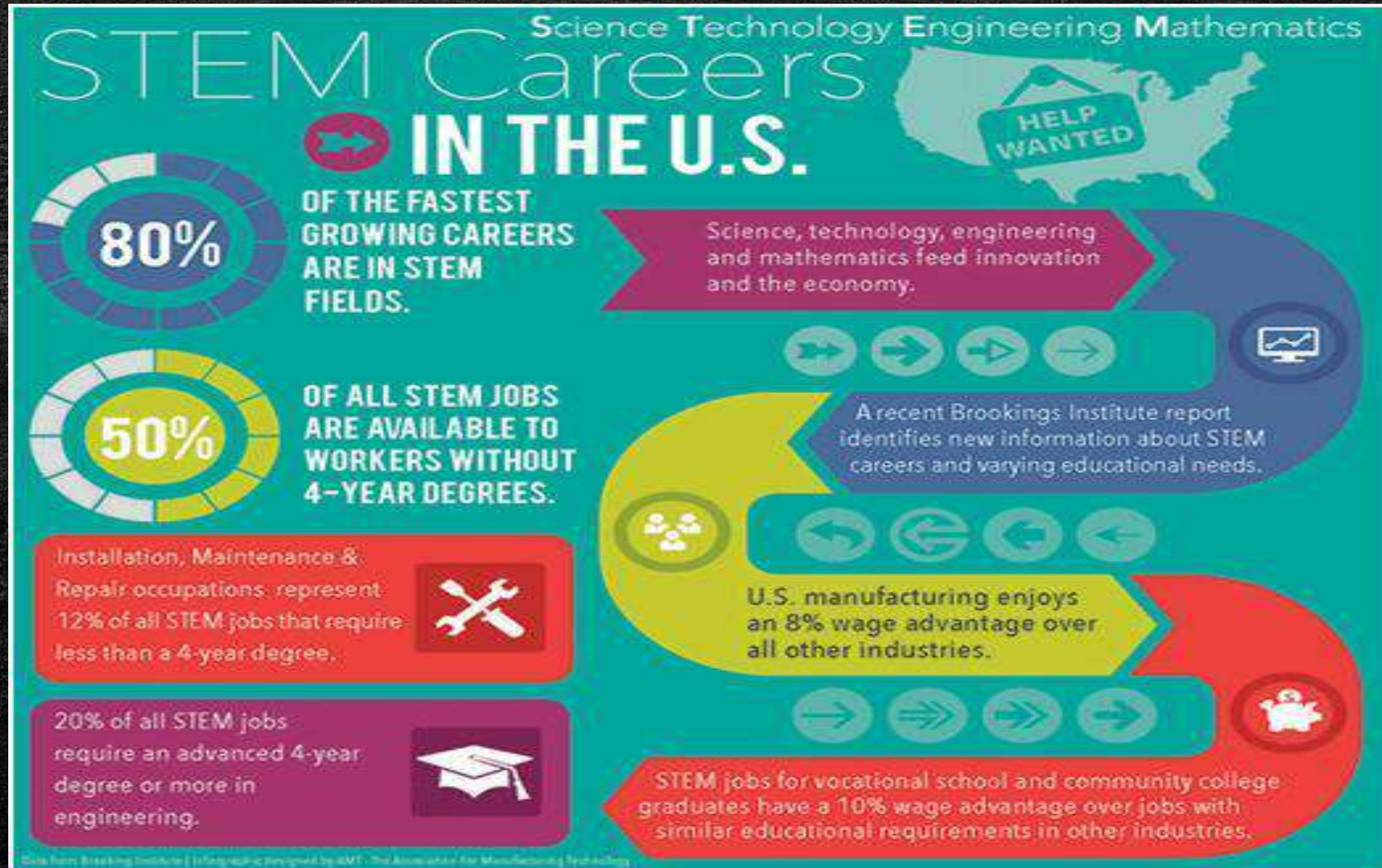


STEM DATA

PROJECTED PERCENTAGE INCREASES IN STEM JOBS: 2010-2020

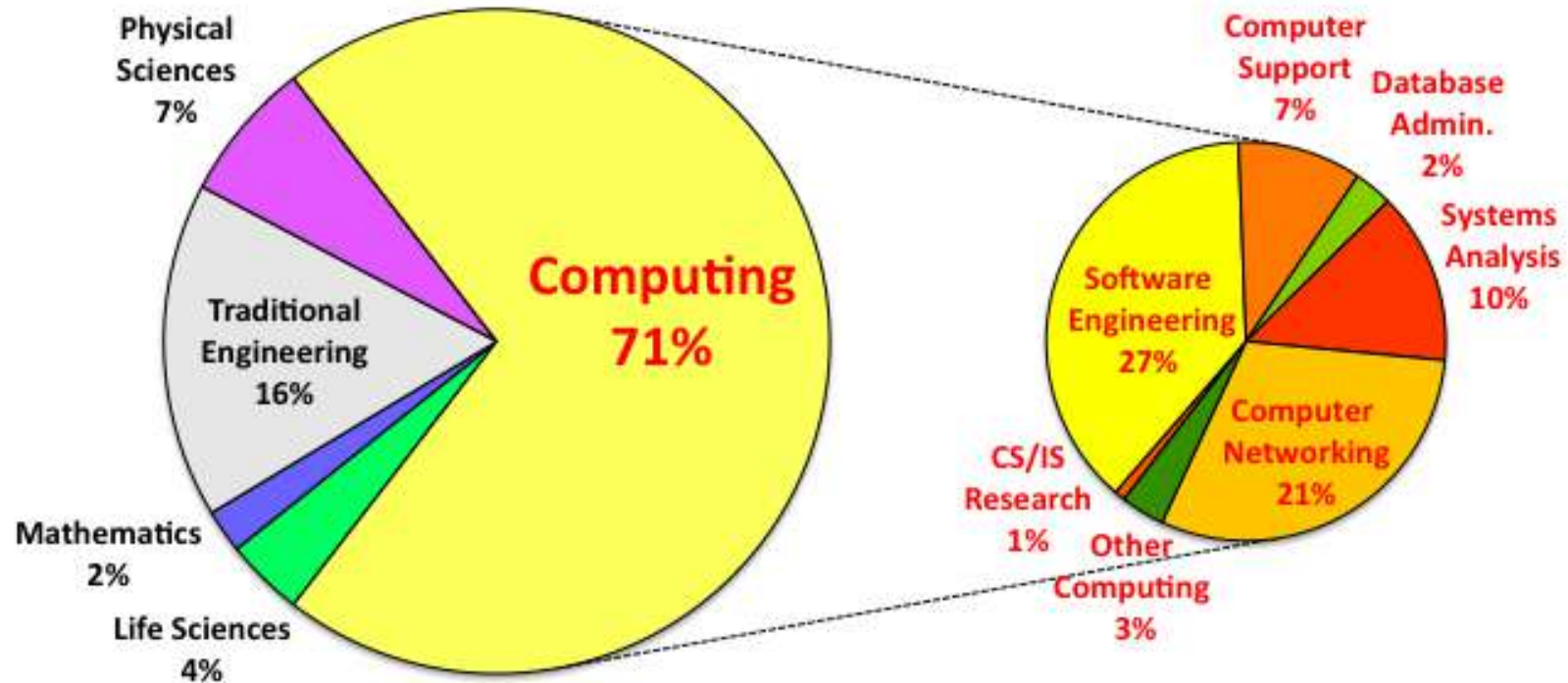


STEM DATA



STEM DATA

Percentage Of New STEM Jobs By Area Through 2018



Data Source: US-BLS Employment Projections, 2008-2018 (http://www.bls.gov/emp/ep_table_102.pdf).

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- Wilkes-Barre ranks 66 out of top 100 metropolitan cities nationwide for STEM jobs <http://timesleader.com/news/506530/scrantonwilkes-barre-rank-66th-among-100-metro-areas-for-science-and-tech-jobs>
 - Wilkes University expanding engineering program <http://timesleader.com/news/507011/wilkes-eyeing-downtown-office-building-to-expand-engineering-programs>

WB Area STEM in the News

- STEM met with Governor Wolf
- STEM met with Bill Finnerty, CFO for Commonwealth of PA
- STEM finished 2nd in Regional STEM Competition (by 1 point) in 2015
 - <http://www.timesleader.com/news/local-news-news/152271016/>
- STEM finished 1st place in Regional STEM Competition in 2016 and is going to State Competition
- STEM runs school wide election in November
- STEM uses new technology, "Z-Space"
 - <http://www.timesleader.com/news/editorial-ouropinion/152717765/OUR-VIEW-W-B-students-show-future-of-learning>
 - http://www.timesleader.com/news/home_top-local-news-news/152685869/







Collaboration with PSU WB Campus

- WB Area STEM students will have the opportunity to take 2 college courses per year (one in fall semester and one in spring) after school at Meyers
- These courses will be college level courses in computer science, engineering, etc instructed by PSU WB faculty and students will receive college credit for the courses
- There is a tuition charge of \$393 (75% discount) that PSU WB will charge our students to take these courses

US History Team Teaching

- Our 2 history teachers in the program, team taught a lesson over several weeks about the War on Terror and its origins from the 1970s through today
- This lesson culminated in a trip to NYC to the 9/11 Memorial and Museum



STEM Pioneers/Trailblazers

- We are one of the first districts, locally, with a standalone STEM program within the confines of an existing building.
- Many local districts have come to meet with our staff to see how our program operates (WVW, Nanticoke, Wyoming Area).
- The future is here in WB Area, do you want to be a part of it?









