

# Community Math Night

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Harts PreK-8 & Omar Elementary School





Children who believe they can be successful in math are more willing to put in effort, even when they struggle, and this results in better performance.<sup>i</sup>

Success in elementary school math predicts future achievement in middle and high school math and other subjects.<sup>ii, iii</sup>

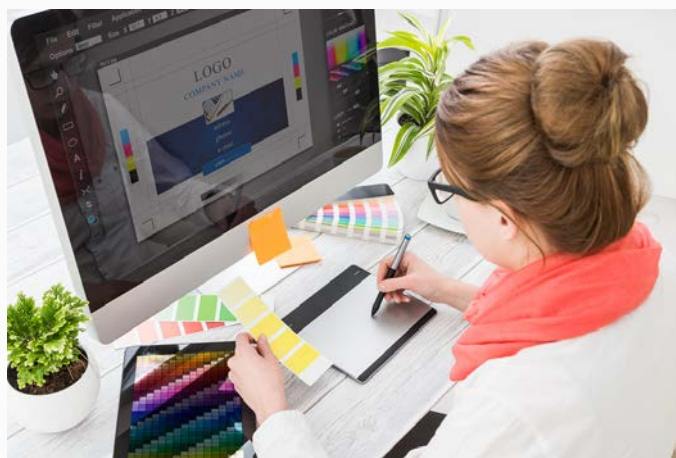
Students who complete higher level math in high school earn higher incomes in the future.<sup>iv</sup>

The number of STEM (science, technology, engineering, and mathematics) jobs is growing and half of all STEM jobs are available to workers without a four-year college degree. STEM jobs pay 10% more than other jobs available to these workers.<sup>v</sup>

# What people think jobs that use math look like...



# What jobs that use math actually look like...



# All CTE/Simulated Workplace career pathways in West Virginia require math



**Agriculture, Food &  
Natural Resources**



**Architecture &  
Construction**



**Arts, A/V Technology &  
Communications**



**Business Management &  
Administration**



**Education & Training**



**Finance**



**Government &  
Public Administration**



**Health Science**



**Hospitality &  
Tourism**



**Human Services**



**Information Technology**



**Law, Public Safety,  
Corrections & Security**



**Manufacturing**



**Marketing**



**Science, Technology,  
Engineering & Mathematics**



**Transportation,  
Distribution & Logistics**

# Math success is a critical component of career readiness



# Do most jobs really require math skills?

- Over half (nearly 500) of all U.S. occupations require significant knowledge of *arithmetic, algebra, geometry, calculus, and statistics and their applications*.
- Nearly all jobs require *habits of mind* that students acquire learning math, such as problem solving, understanding patterns and relationships, and visual reasoning.



# Will learning math help me prepare for college, career, or both?

- 80% of U.S. jobs *require some postsecondary education or training.*
- Building a strong foundation in math can help students so they:
  - avoid taking remedial courses in college *and*
  - have the skills required for entry-level jobs if they choose not to enroll in postsecondary education.





# How can math help me be successful?

- Taking advanced math in high school can **open doors** to more job opportunities and is related to **having a higher income** 10 years after graduation **regardless of family background, grades, and college majors.**



# Mathematics at work

- Now let's hear from some of our community members about how they use mathematics at work.

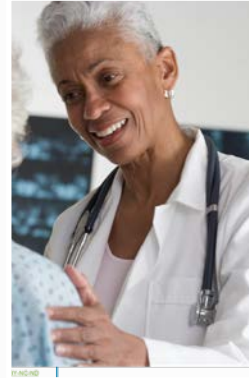


# Station activities



## Machine Tool Technician

works with tools to create precision parts and instruments for a range of products from guitars to jets



## Health Sciences Professional

includes jobs in nursing, physical therapy, pharmacy, laboratory technology, audiology and veterinary science



## Automotive Technician

is responsible for the service and maintenance of personal and commercial vehicles