StudyForge
DIGITAL CURRICULUM

Workplace Mathematics 10

Type: Online

Course Description:

Workplace Math 10 is geared towards students who are not heading into highly academic fields in post-secondary such as Sciences, Engineering, Nursing, Computer Programming, etc. In contrast, Workplace Math 10 teaches hands-on, real-life applicable Math concepts and helps develop these skills through a variety of instruction and project-based learning.

Students in this course will examine big ideas in math including financial planning and probability, with an emphasis on problem solving and critical thinking skills. Specifically, students will cover topics such as measurement, trigonometry, probability, and financial literacy.

StudyForge Workplace Math 10 is intentionally designed for student success, featuring elements such as:

- Video, Audio and Hands-on instruction through videos and interactives
- Practice questions with detailed solutions for self-assessment
- A student notebook that accompanies the instruction, to enhance engagement with course material
- Summative assessments for each module - randomized to allow retests for mastery
- A customized dashboard to let you know which students are most needing your help
- A variety of Inquiry-based projects
- Solution Files & Answer Keys
- And more.

Workplace Math 10 requires that students have completed the prerequisite course: Math 9.

Major Units and Topics:

- Graphs
- Conversions
- Surface Area and Volume
- Trigonometry

- Central Tendency
- Probability
- Financial Literacy

![StudyForge Digital Curriculum logo]

Assessments:

- Video Note Package
- Projects
- Practice Questions

- Assignments
- Chapter Tests

Student Requirements:

- Students will need access to a computer (with internet, speakers, mic and camera), printer, pencil, papers and a scientific calculator.
- A graphing calculator is also permitted and recommended.
  - (Note that there is a built-in graphing calculator in all practice questions.)

Learning Standards Overview:

Content *Students are expected to know the following:*	Ch 1	Ch 2	Ch 3	Ch 4	Ch 5	Ch 6	Ch 7
Graphs							
Including a variety of formats, such as line, bar, and circle graphs, as well as histograms, pictographs, and infographics	✔						
Primary Trigonometric Ratios							
Single right-angle triangles; sine, cosine, and tangent				✔			
Conversions							

With a focus on length as a means to increase computational fluency		✔					
Using tools and appropriate units to measure with accuracy		✔					
Surface Area and Volume							
Including prisms and cylinders, formula manipulation			✔				
Contextualized problems involving 3D shapes			✔				
Central Tendency							
Analysis of measures and discussion of outliers					✔		
Calculation of mean, median, mode, and range					✔		
Experimental Probability							
Simulations through playing and creating games and connecting to theoretical probability where possible						✔	
Financial Literacy							
Where possible types of income; income tax and other deductions							✔