Giving Context to the Classroom

Math and English are key skills which play a strong role in the medical field. As prerequisites to most medical classwork, it can be a student’s struggle to communicate or calculate that keeps them from entering into the career pathway of their dreams.

By giving medical relevance to English and Math classrooms, students have a better concept of how their skills in these subjects may lead them to a stronger career.

Context encourages engagement even for students who don’t have interest in the medical field, so medical application can be used for students in any classroom.

Medical English Curriculum in Development

- The diving bell & the butterfly
- Emperor of all Maladies
- The Red Death—Edgar Allen Poe
- The Immortal Life of Henrietta Lacks
- Shakespeare & Medicine
- Poetry & Illness
- Notes on Nursing—Florence Nightingale
- Analysis of a Medical Drama
- HIPAA, Patient Rights & Healthcare
- Blood & Guts

Helpful resources to get you started

Find our work in development and become a Beta Tester by checking out our google drive at: https://goo.gl/DUaFDd

Find a list of mathematical modeling standards which have been identified for real world connection. standards here: http://goo.gl/p2sCXq

A-G approved CTE courses have been developed by UCCI. See their website for course descriptions & more information. http://ucci.ucop.edu/

Where do Math and Medicine overlap?

- Dosages based on weight & surface area
- Immunizations and disease probability
- Infographics about health disparities
- Health Statistics
- Spreadsheet expressions for stock
- Exponential Bacterial Growth
- Geometry of CBC (complete blood count)
- Creating solutions by percent
- Logarithms and Serial Dilutions
- Logarithms and bacterial counting
- Antibody reactivity titer analysis
- Graphing pH neutralization
- Logarithm applied to transmittance & absorbance in spectrophotometry & colorimetry
- Waves and trigonometry and Medical Imaging
- Half lives of radiometric markers
- Renal clearance as pertains to the body in square meters

Funded in collaboration between the Teacher Preparation Pipeline STEM & CTE Grant, Health Workforce Initiative, And the Regional Pathways Project