

# EXPANDING YOUR PATHWAY WITH MEDICAL MATH & MEDICAL ENGLISH



## 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



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Health Workforce Initiative

