CONTACT INFORMATION

KELSEY MAJOR

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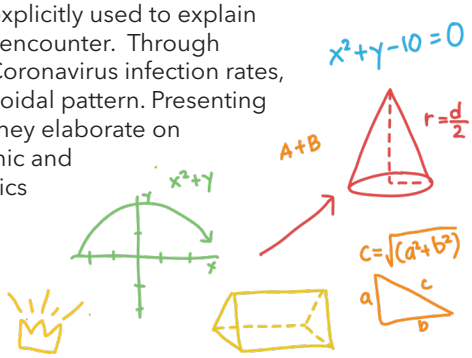
DOWNLOAD PROJECT AT EDUCATIONFUND.ORG

PandeMaths

Students apply math ideas and principles to daily occurrences

What every math teacher tells their students is true, "Math is used and applied to every aspect of your life." Such is confirmed with PandeMaths, which focuses on the Coronavirus Pandemic, revealing to students how the activities of a mathematics class could be used to describe what they are personally experiencing because of the virus. Driven by intense interest, they use math concepts and principles, along with technology and human narratives, to tell the story of the Coronavirus' impact on human life. Students learn that math can be explicitly used to explain many things that humans do and encounter. Through investigation, they discover that Coronavirus infection rates, when modeled, behave in a sinusoidal pattern. Presenting their findings to the entire class, they elaborate on the human aspects of the Pandemic and thoroughly explain the mathematics related to COVID-19.



"PandeMaths created an authentic connection between math theory and real-world application for many of the students."

WORKSHOP INSTRUCTION – WHAT TEACHERS LEARN

The power of mathematics when it is meaningful and relevant to students
How to universally engage 90 students
How to effectively engage students in mathematics instruction that is relevant to their lives

STUDENTS

Adaptation: Can easily be adapted to all grade and achievement levels and adapted to large or small groups
Students who participated: 9th-12th grade, 90 students, twice a week throughout the school year

MATERIALS & RESOURCES

Materials: Computers/laptops, software programs like Desmos, Canva, Padlet (free versions)
Resources: The Internet, virtual field trips to view PandeMaths projects

ABOUT THE TEACHER

Kelsey Major has been a Mathematics teacher for four years. He received the Highly Effective designation in each of those years and was awarded Rookie Teacher of the year two years in a row. Recently, Kelsey was nominated by The University of Miami for National Association of Multicultural Educators' (NAME) National Multicultural Teacher of the Year award.

STANDARDS

MATHEMATICS

MAFS.912.F-IF.2.5 Relate the domain of a function to its graph and, where applicable, to the quantitative relationship that it describes.

MAFS.912.F-IF.2.6 Calculate and interpret the average rate of change of a function-

LANGUAGE ARTS

LAFS.910.W.1.3-Write a narrative to develop real and imagined experiences or events using effective technique, well-choosen details, and well-structured event sequences.-

LAFS.910.W.2.4-Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

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