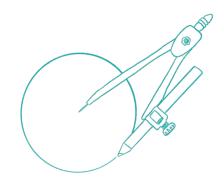


How to Talk to Students About the Relevance of Higher-level Math

It can be hard for 6th to 10th grade students to connect higher-level math, like algebra, to their everyday lives. Understanding why higher-level math matters is critical to students' willingness to engage and persist in learning math. It's important to offer concrete examples of how higher-level math is relevant because vague examples are not credible for students in addressing their doubts.

It is also important to recognize that students have different priorities and interests, so an example might work well for one student, but not as well for another. Using a diversity of examples is more effective than using just one.



Effective Examples Less Effective Examples Examples that students find credible include Abstract examples or those that are vague often those that show how higher-level math can confeel less credible for students. cretely benefit themselves and their families. Higher-level math helps you become financially Math is a universal language. Students often think of literate or make better financial decisions (e.g., you language as a way of communicating (e.g., Spanish, could talk to students about knowing if it's better to Japanese, French). Therefore, students often find this pay for a phone all at once or in installments and with metaphor confusing because they don't see math in the fees) same category as those other languages. Higher-level math can help you understand how to Math helps you build critical thinking skills. Students manage and choose between loan options to buy a don't believe that math is the only way to learn critical car, a house, or other big purchases as an adult. thinking skills - many believe they can also develop those skills learning other subjects which often feel easier and more connected to their own lives. You just have to get through higher-level math so that Higher-level math can help you protect yourself and your family by making you better able to recognize you can graduate from high school or get into college scams and companies that want to take advantage (e.g., it may not be fair, but you just have to get through of you or your family (e.g., you could talk to your stuit). Examples that ignore students' agency or are too dents about how math can help you spot predatory negative are often demotivating and can make stulenders and pay-day loans) dents feel they are being acted upon. Higher-level math can help you 'pivot' in your career. All careers use higher-level math, or you will need If, as an adult, you find yourself in a job you don't like, higher-level math in your life generally. Students have a understanding higher-level math can give you more diversity of life and career goals. Many students believe options about what to do next. that this is either not the case or that the jobs/careers they aspire to will depend more on knowing how to use a tool (e.g., apps, technology platform) than how to do For each category above, specific examples conthe underlying math. necting to students' everyday lives resonate with students, such as: Is buying or renting a video game better? (for students who play video games).