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K-12 \& Higher Education Partnership

Student Success Through Intentional Interventions: "Accelerated Math"


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| Performance Levels | Grade <br> 3 | Grade 4 | Grade 5 | Grade <br> 6 | Grade 7 | Grade 8 | Grade 11 | All Grades |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Standard Exceeded (Level 4) | 7.63\% | 5.12\% | 1.85\% | 3.10\% | 0.40\% | 0.77\% | 0.00\% | 2.62\% |
| Standard Met (Level 3) | 24.15\% | 9.45\% | 8.15\% | 9.66\% | 6.05\% | 3.83\% | 6.18\% | 9.43\% |
| Standard Nearly Met (Level 2) | 19.07\% | 34.25\% | 22.96\% | 22.41\% | 16.53\% | 8.05\% | 11.27\% | 19.19\% |
| Standard Not Met (Level 1) | 49.15\% | 51.18\% | 67.04\% | 64.83\% | 77.02\% | 87.36\% | 82.55\% | 68.76\% |

Martin Luther King Jr.




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| $\equiv$ | Sample Pacing Guide |  |  |
| :---: | :---: | :---: | :---: |
|  |  | Unit |  |
|  | Week 1 | Negative Number Operations, Fractions, Decimals, \& Percentages |  |
|  | Day 1 | Pre-Test, Zoom Expectations, Ice Breaker, Flipgrid Assignment, Syllabus Assignment |  |
|  | Day 2 | Intro to negative numbers, negative decimals and fractions on the number line |  |
|  | Day 3 | Negative symbol as opposite, absolute value |  |
|  | Day 4 | Adding and subtracting fractions with unlike denominators |  |
|  | Day 5 | Multiply fractions, fractions as division, dividing fractions |  |
|  | Week 2 | Fractions, Decimals, \& Percentages Continued, Rates \& Proportional Relationships |  |
|  | Day 1 | Adding and subtracting decimals word problem |  |
|  | Day 2 | Percent problems, percent word problems |  |
|  | Day 3 | Equivalent ratios (Flipgrid), Ratio application |  |
|  | Day 4 | intro to rates, Dependent and independent variables | 19 |
|  | Day 5 | Midterm |  |




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Grade 7 Math - Performance Task - Camping Task (IAB)


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## Students Personal Reflections

"I really enjoyed being apart of the math academy, it definitely helped me understand more things. Although there's a chance I may not pass it to math 2 i still won't struqgle in math 1. Most teachers were really supportive and helped you understand things and the learning assistances were very helpful through out the full program, they were always there to help you with whatever even if they were also a bit confused. Overall i loved the academy and i would like to do this again."
"The math academy although hard is engaging and has taught me a lot. It is a very good program and I have attended all of them and if given the opportunity I would join again. Math went from being my least favorite subject to one of my favorites because of this academy."
"The math you learn here is difficult at first but they teach the math in a way so easy to learn that you can easily understand."
"For starters I loved this academy I have been in it two times once in Saturdays and this summer math academy so I just like to thank my instructors especially Mr. Cazares he was last summer math academy that I was not it but as soon as I spend a day with him I just realized why Loya of students loved him as a teacher I would also like to thank Mr Serrano for the opportunity of a life time of being in this math academy I would just like to say Thank you guys for this opportunity and I will be in next math academy if there is one."



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# Why The Need For Acceleration? 

What Does The
Research Say?



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New Evidence from Elementary Math Classrooms


Our work with Zearn uncovered striking findings. An analysis of data from Zearn encompassing more than two million students in more than 100,000 elementary math classrooms shows:

- Students of color and those from low-income backgrounds were more likely than their white, wealthier peers to experience remediation-even when they had already demonstrated success on grade-level content.
- Students who experienced learning acceleration struggled less and learned more than students who started at the same level but experienced remediation instead.
- Learning acceleration was particularly effective for students of color and those from low-income families.


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Figure 1. 12th-Grade Math Course Enrollment, 2018-19


Note. Of the 75 percent of students enrolled in 12th-grade math, some take more than one math course.


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