

Foundation for Public Schools in Edgefield County

2021-2022 Teacher Vision Grant

Summary of Effectiveness

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The Magic of Mastery with Math Games

The project that I have implemented this year with my fourth grade math students has provided them with a meaningful way to become more fluent with their multiplication and division facts, as well as develop better problem solving skills. Opportunities to engage in math games have provided a strengthened foundation in fact fluency, as well as more problem-solving experiences. I have implemented this project as an additional avenue of support during our school's WIN time (What Individuals Need), where teachers and staff provide personalized learning experiences for each student, based on his/her needs. This project has been a continued effort throughout this current school year, and also will be used as a resource for years to come.

Before implementing the games with my ten focus students (those who remain in my classroom during our WIN intervention period), I administered a multiplication fact pre-assessment of 100 facts. This data showed that 10 out of 10 students scored below 50% accuracy. Recent post-assessment data has revealed that 8 out of 10 students scored 80% and above with fact accuracy!

In addition, multiplication fact mastery has allowed these students to be more successful with solving longer problems with multiple-digit factors, as well as long division. From this point, I plan to move forward by focusing more on fluency (instead of accuracy) with timed assessments, as we continue to implement and enjoy the math games.

I greatly appreciate the opportunity to have been a 2021-2022 grant recipient. My students have, and will continue to be, positively impacted by the provided resources. Their foundation in fact fluency has been strengthened with these meaningful, fun intervention tools, and will continue to be a valuable means of support.