

String Art Project Graphing Linear Equations

at Brownsburg East and West Middle Schools

Sponsored in part by  STATE BANK

Students impacted: 240 per year | Subject: Math



This grant was born out of the desire to give Algebra I students in middle school an opportunity to represent their understanding of graphing linear equations in a non-traditional manner. Through the creation of string art projects, students apply their understanding of graphing linear equations in a creative and innovative way by showing a visual art representation of a variety of linear equations. Prior to the project, students learned and practiced a variety of ways to represent a line such as slope-intercept form and point-slope form. They used this knowledge to complete packets of a common design that was the same for all students. Once they mastered this task, then they had the opportunity to create their own designs using lines and bringing them to creation with string. Students create an art design on the coordinate plane using only lines and ordered pairs. They then make the design visually appealing by using a variety of colors of string to make the lines on colored card stock. This allows students to apply their knowledge of graphing linear equations in a creative manner because they are able to choose their own design, apply the concepts of graphing linear equations to write the equations of each of their lines, and create a piece of art!

