

# Pre-Algebra Students Explore Geometric Transformations

Pre-Algebra students have been diving into the world of geometric transformations, learning how shapes move and change on the coordinate grid. To kick off the unit on reflections, students created reflection paintings by placing paint on one side of their paper, predicting where it would appear on the opposite side, and then folding their papers to test their hypotheses. This hands-on activity helped them visualize the concept of symmetry and reinforced the idea that reflections create mirror images across an axis.

As the week progressed, students explored translations, rotations, reflections, and dilations, applying their knowledge to shapes on the coordinate plane. They practiced shifting figures in different directions, rotating them around a point, flipping them across axes, and resizing them while maintaining proportionality. "I didn't realize how much math was involved in something as simple as flipping a shape!" Levi remarked.



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By the end of the week, the classroom was buzzing with excitement as students mastered the art of moving shapes with precision. They worked through challenges that required them to combine multiple transformations, strengthening their spatial reasoning and problem-solving skills. "It's like a puzzle—you have to figure out exactly how to move the shape to get it where you want," Marcus shared. With their newfound skills, these young mathematicians are now well-equipped to tackle more advanced geometry concepts in the future!

