Transformational Geometry Basics

Today's Standard

8.G.A1 - Verify experimentally the properties of rotations, reflections, and translations:

Real-World Applications for this Standard

Designing symmetrical patterns in art; Mapping coordinates in computer graphics; Navigating using GPS and understanding map projections; Solving puzzles involving symmetry and transformations; Analyzing movements in sports for strategy improvement

Today I Learned

Today we learned about how to move shapes around without changing their size or shape. We can slide them, turn them, or flip them, and they stay the same!

Common Stumbling Blocks

Sometimes kids think that when you slide a shape, it turns. But it doesn't; it just moves. Also, they might think that when you turn or flip a shape, it changes size. But it stays the same size!

Quiz Me

- What happens to the shape when you slide it?
- Does the shape change size when you turn it?
- What do you call it when you flip a shape over?
- Can you tell me what happens when you slide a shape?
- What stays the same when you move a shape?

Help Me

When we move shapes around in different ways, like sliding, turning, or flipping them, we can see how they stay the same size and shape. This helps us understand things like making patterns in art or figuring out how to get from one place to another on a map.