



Transformational Geometry Basics

Today's Standard

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

| Cues | Notes |
|-------------------------------|---|
| Transformations | Transformations: Operations that move or change a shape in some way. |
| Translation | Translation: Slides a shape without changing its orientation or size. |
| Rotation | Rotation: Turns a shape around a fixed point without changing its size. |
| Reflection | Reflection: Flips a shape over a line, creating a mirror image. |
| Properties of Transformations | Properties of Transformations: Translations, rotations, and reflections preserve the size and shape of figures. |

Summary

Transformations in geometry include translations, rotations, and reflections. These operations move shapes without altering their size or shape, which is critical for understanding more complex geometric concepts.