



## Transformations and Congruence

### Today's Standard

8.G.A1a - Lines are taken to lines, and line segments to line segments of the same length.

Cues	Notes
What is a transformation?	A transformation is an operation that moves or changes a shape in some way while preserving certain properties.
How do transformations affect line segments?	Transformations take lines to lines and line segments to line segments of the same length.
What are examples of transformations?	Examples of transformations include translations, rotations, and reflections.
What is congruence?	Congruence means that two shapes are identical in shape and size.
How do transformations apply in real life?	Transformations are used in various fields such as art, architecture, and computer graphics.

### Summary

Transformations are operations that move shapes while preserving properties like length. They are key to understanding congruence and are applied in many real-world scenarios.