Rigid Motions and Congruence

Today's Standard

HSG.CO.B6 - Use geometric descriptions of rigid motions to transform figures and to predict the effect of a given rigid motion on a given figure; given two figures, use the definition of congruence in terms of rigid motions to decide if they are congruent.

Cues	Notes
What are rigid motions?	Rigid motions include translations, rotations, and reflections.
How do rigid motions affect figures?	Rigid motions change the position of figures without altering their size or shape.
What is congruence in geometry?	Congruence means that two figures are identical in size and shape.
How can you determine if two figures are congruent?	To determine congruence, use rigid motions to see if one figure can be transformed to match the other.
What are common misconceptions about congruence?	Common misconceptions include thinking figures must be oriented the same way and confusing congruence with similarity.

Summary

Rigid motions are transformations that preserve the size and shape of figures. Congruence is determined by whether one figure can be transformed to match another using rigid motions. Common misconceptions include orientation and confusing congruence with similarity.