

Activity 12 Assessment

Exploring Congruency

Applying Transformations to 2-D Shapes

Identifies congruent shapes with same orientation



"These shapes are congruent because they have the same shape and size and are facing the same way."

Identifies congruent shapes with different orientations (uses physical movement)



"These shapes are congruent because when I turn one shape, it matches the other shape exactly."

Identifies congruent shapes with different orientations (uses visualization)



"These shapes are congruent because I can picture turning one shape half a turn to match the other."

Observations/Documentation

Activity 12 Assessment

Exploring Congruency

Applying Transformations to 2-D Shapes (con't)

Identifies translations but struggles to differentiate between reflections and rotations



"I would translate A to the right to get B.
I'm not sure whether I would reflect or rotate C to get D."

Performs the transformation needed to match two congruent shapes (i.e., rotation, reflection, or translation)



"I used a Mira and the two shapes matched exactly. So, Shape C was reflected."

Uses orientation to flexibly predict and describe transformation of congruent shapes



"From A to B: same orientation, so translation to the right; from C to D: opposite orientations, so a reflection in vertical line between C and D; from E to F: different orientations, so quarter-turn clockwise rotation."

Observations/Documentation