Geometry

Activity 13 Assessment
Exploring Transformations

Applying Transformations to 2-D Shapes		
Identifies congruent shapes with same orientation	Identifies congruent shapes with different orientations (uses physical movement)	Identifies congruent shapes with different orientations (uses visualization)
"These shapes are congruent because they have the same shape and size and are facing the same way."	"These shapes are congruent because when I turn one shape, it matches the other shape exactly."	"These shapes are congruent because I can picture turning one shape half a turn to match the other."
Observations/Documentation		

Mathology 3
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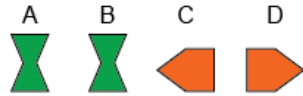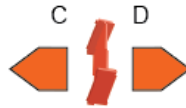
Activity 13 Assessment
Exploring Transformations

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

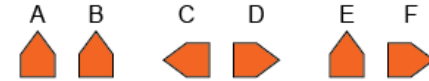| Identifies translations but struggles to differentiate between reflections and rotations	Performs the transformation needed to match two congruent shapes (i.e., rotation, reflection, or translation)	Uses orientation to flexibly predict and describe transformation of congruent shapes
A B C D	C D	A B C D E F
"I would translate A to the right to get B. I'm not sure whether I would reflect or rotate C to get D."	"I used a Mira and the two shapes matched exactly. So, Shape C was reflected."	"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