

# Math ISAT: Concepts and Principles of Geometry

## Skills: Symmetry and Transformation

<b>Students:</b>	<b>RIT Above 270:</b> • <i>No Skills Listed</i>
<b>Students:</b>	<b>RIT 261-270:</b> • <i>No Skills Listed</i>
<b>Students:</b>	<b>RIT 251-260:</b> • Determines whether a given pattern or polygon will tessellate • Uses picture representations to solve problems involving symmetry of figures with respect to a point or line • Uses picture representations to solve problems involving transformations of figures
<b>Students:</b>	<b>RIT 241-250:</b> • Identifies symmetry of a sphere
<b>Students:</b>	<b>RIT 231-240:</b> • Identifies geometric transformations (dilations)
<b>Students:</b>	<b>RIT 221-230:</b> • Predicts changes necessary to create symmetry in basic shapes • Identifies geometric transformations (rotations) • Identifies geometric transformations (translations) • Identifies geometric transformations (reflections)
<b>Students:</b>	<b>RIT 211-220:</b> • Classifies figures by the number of lines of symmetry • Identifies geometric transformations (rotations) • Identifies geometric transformations (translations) • Identifies geometric transformations (reflections)
<b>Students:</b>	<b>RIT 201-210:</b> • Classifies figures by the number of lines of symmetry • Defines transformations
<b>Students:</b>	<b>RIT 191-200:</b> • Identifies figures with line symmetry • Identifies the number of lines of symmetry in figures • Identifies transformations of plane figures (reflections/flips)
<b>Students:</b>	<b>RIT 181-190:</b> • Identifies figures with line symmetry • Identifies transformations of plane figures (rotations/turns) • Identifies transformations of plane figures (translations/slides)
<b>Students:</b>	<b>RIT 171-180:</b> • <i>No Skills Listed</i>
<b>Students:</b>	<b>RIT 161-170:</b> • <i>No Skills Listed</i>
<b>Students:</b>	<b>RIT Below 161:</b> • Predicts the shape after unfolding a figure