



Oxford City Schools

# Proficiency Scale

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**GRADE LEVEL: 09 COURSE NAME: Geometry with Data**  
**MEASUREMENT TOPIC: Define and Explore Transformations**

**4**

In addition to Score 3, the student makes in-depth inferences and applications.

**3**

The student can:

- Follow a sequence of rigid/non-rigid motions that maps one figure to the other in the plane (coordinate and otherwise) using tools such as tracing paper and geometry software.
  - Describe transformations and compositions of transformations as functions that take points in the plane as inputs and give other points as outputs, using informal and formal notation.

**2**

The student can:

- Explore rotations, reflections, and translations, dilations, using graph paper, tracing paper, or geometry software.
  - Given a geometric figure and a rotation, reflection, translations, or dilations draw the image of the transformed figure using graph paper, tracing paper, or geometry software.
- Develop a definition of rotation, reflection, translation, and dilation in terms of angles, perpendicular lines, parallel lines, and line segments.

**1**

With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

**Key Vocabulary:**