

Grade 8 - Unit 8 Geometry

G02 Students will be expected to demonstrate an understanding of the congruence of polygons under a transformation.

Performance Indicators

G02.01 Determine the coordinates of the vertices of an image following a given combination of transformations of the original figure.

G02.02 Draw the original figure and determine the coordinates of its vertices, given the coordinates of the image's vertices and a description of the transformation (translation, rotation, reflection).

Limited	Developing	Competent	In-Depth
Student can use key terms such as coordinate plane, ordered pairs, origin, x-axis, y-axis, x-coordinates and y-coordinates appropriately.	<p>Student can determine the coordinates of the vertices of an image following a given single transformation of the original figure.</p> <p>Student can draw the original figure and determine the coordinates of its vertices, given the coordinates of the image's vertices and a description of a translation.</p>	<p>Student can determine the coordinates of the vertices of an image following a given combination of transformations of the original figure.</p> <p>Student can draw the original figure and determine the coordinates of its vertices, given the coordinates of the image's vertices and a description of the transformation (translation, rotation, reflection).</p>	Student can describe the relationship between the coordinates of the vertices of a polygon after a transformation and its pre-image.