## Activity 3 Assessment

 Introduction to Cartesian Planes

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 Introduction to Cartesian Planes| Location and Transformations in the Cartesian Plane (cont'd) |  |  |  |
| :---: | :---: | :---: | :---: |
| Describes and performs transformations of polygons on a Cartesian plane. <br> "I translated $\triangle \mathrm{ABC}$ right 3 squares and down 5 squares to get $\triangle A^{\prime} B^{\prime} C^{\prime}$.' | Identifies transformation used to move a polygon on a Cartesian plane. <br> "The shape was rotated $90^{\circ}$ counterclockwise about T to get the image. The shape and its image are congruent but have different orientations. | Relates the coordinates of a polygon and its image after a translation, reflection, or rotation. <br> "After a reflection in the $y$-axis, the $x$-coordinates of the vertices change sign, and the $y$-coordinates stay the same. | Flexibly visualizes and predicts where the image of a polygon will be after a transformation. <br> "I can picture the Polygon's reflection, Image 1, on the other side of the $y$-axis, and the Polygon's reflection, Image 2, on the other side of the $x$-axis. Each time, matching vertices will be the same distance from the line of reflection and the polygon, and its image will have opposite orientations |
| Observations/Documentation |  |  |  |
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