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| **Applying and Visualizing Rotations on a Grid** |
| Identifies rotated 2-D shapes on a grid with a point of rotation on the shape.“This grid shows a rotation of a tun about vertex P.” | Identifies rotated 2-D shapes on a grid with a point of rotation outside the shape.“The shape has been rotated a turn around the point of rotation P, located outside the shape.” | Describes and performs rotations/turns, both clockwise and counterclockwise.“The shape was rotated by a turn counterclockwise about P. The matching vertices on the shape and its image are the same distance from the point of rotation.” | Visualizes, predicts, and describes where the image of a shape will be after a rotation.“I visualized and predicted where the images of the pentagon would be after a rotation of a turn clockwise about P (on the shape) and after a rotation of a turn counterclockwise about Q (off the shape). I rotated the shape to check. I know each image is correct because corresponding points are the same distance from the point of rotation.” |
| **Observations/Documentation** |
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