CCM8 Unit 14 Transformations and Properties of Transformations Vocabulary List

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| **Vocabulary Word** | **Definition** |
| image | a figure resulting from a transformation |
| pre-image | a figure before a transformation occurs |
| transformation | a change in the size or position of a figure |
| translation | a movement (slide) of a figure along a straight line |
| image | a figure resulting from a transformation |
| pre-image | a figure before a transformation occurs |
| reflection | a transformation of a figure that flips the figure across a line |
| clockwise | the figure moves the same direction as a clock moves |
| counterclockwise | the figure moves the opposite direction as a clock |
| origin | the point where the x-axis and y-axis intersect on the coordinate plane |
| rotate 180 degrees | the figure turns two quadrants |
| rotate 270 degrees | the figure turns three quadrants |
| rotate 90 degrees | the figure turns one quadrant |
| rotation | a transformation in which a figure is turned about a point |
| isometry | a transformation in which an original figure and its image are congruent |
| center of dilation | the point of intersection of lines through each pair of corresponding vertices in a dilation |
| dilation | transformation that changes the size, but not the shape, of a figure |
| scale factor | the ratio used to enlarge or reduce similar figures |
| composition of transformation | A composition of two transformations is a transformation in which a second transformation is performed on the image of a first transformation |
| glide reflection | A composition of a translation and a reflection in a line parallel to the direction of the translation |