

Cornell Note

Transformations of 2D Figures

Today's Standard

8.G.A3 - Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.

| Cues | Notes |
|-------------------------|--|
| Transformations | Transformations include translations, rotations, reflections, and dilations. |
| Rigid Motions | Rigid motions (translations, rotations, reflections) do not change the size of the figure. |
| Dilations | |
| Coordinate Plane | Dilations change the size but maintain the shape and proportions of the figure. |
| Real-world applications | Coordinate planes are used to describe transformations using points (x, y) . |
| | Applications: graphics design, animation, architecture, navigation. |

Summary

Understanding geometric transformations on coordinate planes is crucial. Rigid motions preserve size while dilations change it. These concepts are widely applicable in various real-world fields.