## Module 1: Transforming Geometric Objects Topic 1: Rigid Motion Transformations

| Lesson \# |
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| Lesson Title |
| ELPS: 1.A, 1.C, 1.D, 1.E, 1.G, 2.C, 2.D, 2.G, 2.H, 2.I, 3.A, 3.B, 3.C, 3.D, 3.F, 4.A, 4.B, 4.C, 4.D, 4.G, 4.K, 5.E |


| Lesson \# | Lesson Title | Lesson Subtitle Highlights |  | TEKS | Pacing* |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | Lateral <br> Moves | Translations of Figures on the Coordinate Plane | Students use patty paper to explore translations of various figures on a coordinate plane. They then generalize about the effects of translating a figure on its coordinates. Students verify that two figures are congruent by describing a sequence of translations that map one figure onto another. | $\begin{aligned} & 8.10 \mathrm{~A} \\ & 8.10 \mathrm{C} \end{aligned}$ | 2 |
| 4 | Mirror, Mirror | Reflections of Figures on the Coordinate Plane | Students use patty paper to explore reflections of various figures on a coordinate plane. They then generalize about the effects reflecting a figure has on its coordinates. Students verify that two figures are congruent by describing a sequence of translations and reflections that map one figure onto another. | $\begin{aligned} & 8.10 \mathrm{~A} \\ & 8.10 \mathrm{C} \end{aligned}$ | 2 |
| 5 | Half Turns and Quarter Turns | Rotatins of Figures on the Coordinate Plane | Students use patty paper to explore rotations of various figures on a coordinate plane. They then generalize about the effects of rotating a figure on its coordinates. Students verify that two figures are congruent by describing a sequence of rigid motions that map one figure onto another. | $\begin{aligned} & 8.10 \mathrm{~A} \\ & 8.10 \mathrm{C} \end{aligned}$ | 2 |
| 6 | Every Which Way | Combining Rigid Motions | Students use coordinates to determine the rigid motion used to map one congruent figure onto another. They learn about and write congruence statements for congruent triangles. Using figures on a grid, students investigate and determine a sequence of transformations that can be used to verify that figures are congruent. They then generalize the effects of rigid motions on the coordinates of figures. | $\begin{aligned} & 8.10 \mathrm{~A} \\ & 8.10 \mathrm{C} \end{aligned}$ | 2 |
| End of Topic Assessment |  |  |  |  | 1 |

