

## Texas Accelerated Grade 7: Module 1, Topic 2 Pacing Guide

\*1 Day Pacing = 45 min. Session

# Module 1: Transforming Geometric Objects

## Topic 2: Similarity

Lesson #	Lesson Title	Lesson Subtitle	Highlights	TEKS	Pacing*
ELPS: 1.A, 1.C, 1.E, 1.F, 1.G, 2.C, 2.E, 2.I, 3.D, 3.E, 4.B, 4.C, 5.B, 5.F, 5.G					
1	Pinch-Zoom Geometry	Dilations of Figures	Students explore dilations on the plane. The terms <i>dilations</i> , <i>center of dilation</i> , <i>scale factor</i> or <i>dilation factor</i> , <i>enlargement</i> , and <i>reduction</i> are defined. Students dilate a variety of objects and figures using scale factors greater than and less than 1. They use a model to determine side lengths and angle measures after enlargements and reductions in order to verify similarity. Students connect dilations to changing image sizes in word processing and graphics software.	8.3A 8.10A	2
2	Running, Rising, Stepping, Scaling	Dilating Figures on the Coordinate Plane	Students build dilations on the coordinate plane as repeated geometric translations, using the origin as the center of dilation. Throughout, students create and modify conjectures about the effect of dilations with the origin as the center on the coordinates, perimeter, and area of a figure. They use dilations and transformations they learned previously to verify that two figures are similar.	8.3B 8.3C 8.10B 8.10D	2

Lesson #	Lesson Title	Lesson Subtitle	Highlights	TEKS	Pacing*
3	From Here to There	Mapping Similar Figures Using Transformations	Students determine if figures are similar through transformations. They explore what is meant by “same shape” when referring to similar figures. Students determine similarity using a single dilation and verify similarity of a variety of figures through a sequence of transformations. They then explore the relationship between images of a common pre-image under different conditions and the relationship between figures that are similar. Finally, students summarize the relationships between transformations and congruent and similar figures.	8.3C 8.10A 8.10B 8.10C	2
End of Topic Assessment					1