

Grade 3	Lesson: 11-7 Making New Shapes	Reference to English
Math Standard(s): 3.G.1		Domain: Geometry
Content objective(s):		Language Objective(s):
Students will make a new shape by cutting apart a shape and rearranging the pieces. <i>我会把一个形状分开或重组来提出新的形状。</i>		Students will explain why they think the runway will look the way they drew it. <i>我会解释我怎么画出跑道的。</i>
Essential Understanding Polygons can be put together or taken apart to make other polygons.		Required Academic Vocabulary for Word Wall: Listen: Read: Write: Speak: Sentence Frame:
Materials: <ul style="list-style-type: none"> 1-inch grid paper (Teaching Tool 12) tape Scissors Polygons (Teaching Tool 29) Guided and Independent Practice 		Additional Lesson Vocabulary:
Lesson:		Instructional Time: 30 – 35 minutes
Opening: (6 minutes) <ul style="list-style-type: none"> Review shape names, shape descriptions and how to combine shapes to make other shapes. T: “今天你会学习怎么把形状分开然后重组来做出新的形状。所以我们在做上一课学习到的相反。” Introduction to New Material (Direct Instruction): (7 minutes) <ul style="list-style-type: none"> Use page 290B from the Teachers’ Manual. Demonstrate how you can cut a shape apart and rearrange it to make another shape. T: “我可以用哪些不同的方式来把正方形分开？” <ul style="list-style-type: none"> Pass out teaching tool 29 and have the students find another ways to cut and arrange the square. T: “今天，我们把正方形分开然后重组成一个凹的五边形。” Guided Practice: (5 minutes) <u>Use the modeling cycle:</u> Teacher Does: <ul style="list-style-type: none"> Done in Direct Instruction 1 Students Does with Teacher: 2 Students Do: All Students Do: T: “与同学合作来决定用哪些形状来组成一个正方形。” Independent Practice: (8 minutes) <ul style="list-style-type: none"> Read problems 1-5 on page 290 to the students and let them solve independently. T: “请自己完成第 6—8 题。” Closing: (6 minutes) <ul style="list-style-type: none"> Pass out whiteboards, erasers and markers. Do problems 9, 11 and 12. Have students explain their reasoning to each other. 		
Assessment:		
Guided and Independent Practice		