

Grade 3	Lesson: 11-6 Combining and Separating Shapes	Reference to English
Math Standard(s): 3.G.1		Domain: Geometry
Content objective(s):		Language Objective(s):
Students will create new shapes by combining shapes or by separating shapes. <i>我会结合形状或把形状分开来做出新的形状。</i>		Students will describe shapes to a partner. <i>我会描述形状给同学听。</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"> Polygons B, H, K, M, N, and O from Polygons (Teaching Tool 29) Polygons (1 set per student) ask 1st grade if you can borrow them (also called pattern blocks) Scissors (per pair) Guided and Independent Practice 		Additional Lesson Vocabulary:
Lesson:		Instructional Time: 30 – 35 minutes
Opening: (6 minutes) <ul style="list-style-type: none"> Review shapes and how to describe them. T: “今天你会学习怎么结合两个以上的形状来做出新的形状。” <ul style="list-style-type: none"> Describe shapes as a class. Then have them describe them to their neighbor. Introduction to New Material (Direct Instruction): (7 minutes) <ul style="list-style-type: none"> Pass out polygons (1 set per student) T: “看这个六边形，你可以用哪些形状来做出六边形？用 2 个方式来做出六边形并告诉你旁边的同学你用了哪些形状。” T: “你用了哪些形状来做出六边形？请上来做给班上同学看。” T: “还有其他的方法吗？” T: “你结合形状来做出六边形时，那些形状的角度和边与六边形相同。” Guided Practice: (6 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: “与一个同学合作，你们要结合其他形状来做出梯形并说出你用了哪些形状。” S: “I used _____ to make a trapezoid.” Independent Practice: (8 minutes) <ul style="list-style-type: none"> Read the problems on page 288 to the students and have them solve. T: “请自己回答 289 页的第 7—12 题。” Closing: (5 minutes) <ul style="list-style-type: none"> Finish with answering problems 13 and 15 as a class on page 289. 		
Assessment:		
Guided and Independent Practice		