Mathematics Curriculum

Topic B

Compose Numbers 11–20 from 10 Ones and Some Ones; Represent and Write Teen Numbers

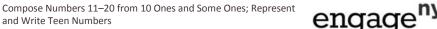**K.CC.3, K.NBT.1,** K.CC.1, K.CC.2, K.CC.4a, K.CC.4b, K.CC.4c, K.CC.5

Focus Standards:	K.CC.3	Write numbers from 0 to 20. Represent a number of objects with a written numeral 0–20 (with 0 representing a count of no objects).
	K.NBT.1	Compose and decompose numbers from 11 to 19 into ten ones and some further ones, e.g., by using objects or drawings, and record each composition or decomposition by a drawing or equation (e.g., 18 = 10 + 8); understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.
Instructional Days:	4	
Coherence -Links from:	GPK–M5	Addition and Subtraction Stories and Counting to 20
-Links to:	G1–M2	Introduction to Place Value Through Addition and Subtraction Within 20

In Topic B, students advance to a more abstract level, representing the decomposition of teen numbers first with Hide Zero cards (place value cards) and in Lesson 7 with number bonds. They then work from the abstract to the concrete and pictorial in Lessons 8 and 9 as they are directed to "show (and in Lesson 9 draw) me this many cubes (as teacher displays 13)."

Application Problems in Topic B are experiences with decomposition and composition of teen numbers (**K.NBT.1**) rather than word problems (**1.OA.1**). For example, in Lesson 7, the problem reads, "Gregory drew 10 smiley faces and 5 smiley faces. He put them together and had 15 smiley faces. Draw his 15 smiley faces as 10 smiley faces and 5 smiley faces." In this instance, there is no unknown. We do not ask, "How many in all?" or "How many?" as within a word-problem setting. The students represent 15 with their Hide Zero cards, both when the zero is hiding and when it is not hiding, as they apply all their experiences from Topic A to deeply understand the meaning of the digit 1 in the tens place in teen numbers.

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A Teaching Sequence Toward Mastery of Composing Numbers 11–20 from 10 Ones and Some Ones; Representing and Writing Teen Numbers

Objective 1: Model with objects and represent numbers 10 to 20 with place value or Hide Zero cards.
(Lesson 6)

Objective 2: Model and write numbers 10 to 20 as number bonds.
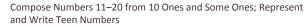(Lesson 7)

Objective 3: Model teen numbers with materials from abstract to concrete.
(Lesson 8)

Objective 4: Draw teen numbers from abstract to pictorial.
(Lesson 9)