GO Math! Scope and Sequence

This document contains a high-level scope and sequence for the GO Math! program intended to give teachers an overview of where instructional time will be spent across the year through use of GO Math!. It provides a suggested sequence of instruction and assessments, including where NYCDOE Periodic Assessments can be used to gauge students' understanding of concepts and skills taught at benchmark moments throughout the year. Based on the Common Core Standards, Go Math! is divided into critical areas that offer a focused and coherent study of the key concepts and skills for each grade.

For each critical area, you will see the following:

- Essential Ideas: The key topics of the unit; chapters and lessons are built around achieving understanding and mastery of these topics.
- **Standards:** The standards listed show the main standards covered throughout the Critical Area. Instruction is focused on achieving a thorough knowledge of these standards.
- Mathematical Practices: While all practices are integrated into each Critical Area, the practices listed are ones that receive particular emphasis.
- Essential Questions: The essential question for each chapter is listed, showing the goal of each chapter.
- **Assessment Opportunities:** This listing highlights the assessments that ensure teachers can gauge student success on mastering the standards covered in the Critical Area.

Grade K: Suggested Sequence for the <i>GO Math!</i> program	Suggested Amount of Time (in days)
Critical Area 1: Number and Operations	84 days
Critical Area 2: Geometry and Positions	25 days
Critical Area 3: Measurement and Data	15 days

Critical Area 2: Geometry and Positions Chapters 9–10

84 Days (Instructional Days: 68; Assessment Days: 16) Focus or Main Know number names and the count sequence. Identify and describe shapes (squares, circles, triangles, rectangles, **CC Standards** hexagons, cubes, cones, cylinders, and spheres). Count to 100 by ones and by tens. K.CC.1 K.CC.2 Count forward beginning from a given number within the known sequence Describe objects in the environment using names of shapes, and describe (instead of having to begin at 1). the relative positions of these objects using terms such as above, below, K.CC.3 Write numbers from 0 to 20. Represent a number of objects with a written beside, in front of, behind, and next to. numeral 0-20 (with 0 representing a count of no objects). **K.G.2** Correctly name shapes regardless of their orientations or overall size. **K.G.3** Identify shapes as two-dimensional (lying in a plane, "flat") or three-Count to tell the number of objects. dimensional ("solid"). **K.CC.4** Understand the relationship between numbers and quantities; connect Analyze, compare, create, and compose shapes. counting to cardinality. **K.CC.4a** When counting objects, say the number names in the standard Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similariorder, pairing each object with one and only one number name and each number name with one and only one object. ties, differences, parts (e.g., number of sides and vertices/"corners") and **K.CC.4b** Understand that the last number name said tells the number other attributes (e.g., having sides of equal length). of objects counted. The number of objects is the same regardless of their Model shapes in the world by building shapes from components (e.g., **K.G.5** arrangement or the order in which they were counted. sticks and clay balls) and drawing shapes. **K.CC.4c** Understand that each successive number name refers to a **K.G.6** Compose simple shapes to form larger shapes. quantity that is one larger. Count to answer "how many?" questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1–20, count out that many objects. Compare numbers. K.CC.6 Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies. Compare two numbers between 1 and 10 presented as written numerals. Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from. Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations. Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem. **K.OA.3** Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation (e.g., 5 = 2 + 3 and 5 = 4 + 1) **K.OA.4** For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation. **K.OA.5** Fluently add and subtract within 5. Work with numbers 11-19 to gain foundations for place value. 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. Highlighted MP.5 Use appropriate tools strategically. **MP.3** Construct viable arguments and critique the reasoning of others. Mathematical MP.6 **MP.7** Attend to precision. Look for and make use of structure. Practices MP.8 Look for and express regularity in repeated reasoning. Essential How can you identify, name, and describe two-dimensional shapes? (Chapter 9) How can you show, count, and write numbers 0 to 5? (Chapter 1) **Ouestions** How can building and comparing sets help you compare numbers? (Chapter 2) How can identifying and describing shapes help you sort them? (Chapter 10) How can you show, count, and write numbers 6 to 9? (Chapter 3) How can you show and compare numbers to 10? (Chapter 4) How can you show addition? (Chapter 5) How can you show subtraction? (Chapter 6) How can you show, count, and write numbers 11 to 19? (Chapter 7) How can you show, count, and write numbers to 10 and beyond? (Chapter 8) **Assessment** Show What You Know Show What You Know Opportunities Mid-Chapter Checkpoint Mid-Chapter Checkpoint Chapter Review/Test Chapter Review/Test Chapter Test Chapter Test Chapter Performance Task Chapter Performance Task Critical Area Performance Task Critical Area Performance Task

Critical Area 1: Number and Operations Chapters 1–8

NYC Go Math! Grade K

	Critical Area 3: Measurement and Data Chapters 11–12		
	15 Days	(Instructional Days: 11; Assessment Days: 4)	
Focus or Main	Describe and compare measurable attributes.		
CC Standards	K.MD.1	Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.	
	K.MD.2		
	Classify	objects and count the number of objects in each category.	
	K.MD.3	Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.	
Highlighted Mathematical Practices	MP.1 MP.2 MP.4	Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Model with mathematics.	
Essential Questions	Tion can comparing objects help you measure them. (chapter 11)		
Assessment	Mid-Chapter Checkpoint		
Opportunities			
	Chapter Review/Test Chapter Test		
	Chapter Performance Task		
	Critical Area Performance Task		