

**Instructional Guide**  
**Grade K – Mathematics**  
September 2022 through January 2023

## Grade K Overview

Module	Standards
M1: Numbers to Ten	K.MD.3, K.CC.3, K.CC.4, K.CC.5, K.OA.3
M2: Two Dimensional and Three-Dimensional Shapes	K.G.1, K.G.2, K.G.3, K.G.4, K.MD.3
M3: Comparison of Length, Weight, Capacity, and Numbers to 10	K.MD.1, K.MD.2, K.CC.4c, K.CC.5, K.CC.6, K.CC.7
M4: Number Pairs, Addition and Subtraction to 10	K.OA.1, K.OA.2, K.OA.3, K.OA.4, K.OA.5
M5: Numbers 10–20 and Counting to 100	K.CC.1, K.CC.2, K.CC.3, K.CC.4, K.CC.5, K.NBT.1, K.NBT.3, 1.OA.8, 1.NBT.3
M6: Analyzing, Comparing, and Composing Shapes	K.CC.4d, K.G.1, K.G.2, K.G.4, K.G.5, K.G.6

***See PAGE 4 for your September to January PACING***

# K-8 MATHEMATICS - DIGITAL RESOURCES

	Zearn	Moby Max	i-Ready	First in Math (K-5)	IXL
<b>Purpose</b>	Zearn Math instructional resources are designed to mirror teacher instruction with Eureka/EngageNY.	Moby Max is designed to find and fix learning gaps using the power of personalized learning.	i-Ready provides teachers with individualized data and suggested differentiated instruction to support student learning.	First In Math provides self-paced activities to help students strengthen fact fluency, automaticity, computational thinking, and other critical skills that support STEM readiness.	IXL is a targeted learning tool used to provide personalized action plans and links related to the academic progress and areas of need for each student
<b>District Expectations</b>	<p>Zearn will be used to support grade level instruction. The independent digital lessons will be assigned following teacher instruction.</p> <p>Zearn may also be used for re-teach, in cases where students need review of previous grade level content.</p>	<p>Moby Max will be used to provide intervention in the areas where individual students are struggling.</p> <p>Every student will take the Moby Max diagnostic at the start of the year; providing each student with an individualized plan for learning.</p> <p>Moby Max may also be used to support grade level instruction.</p>	<p>i-Ready will be used as the district's math screener for grades K-8.</p> <p>Every student will take the digital math screener during the three identified testing windows: BOY, MOY and EOY.</p>	<p>First In Math will be used for fluency practice; to master facts, practice procedural skills and engage in problem-solving.</p>	<p>IXL will be used as a district benchmark for all high school math courses <u>and</u> grade 8 Algebra during three identified testing windows: BOY (diagnostic), MOY (snapshot) and EOY (snapshot).</p> <p>Students must also work in IXL diagnostic arena for 10 minutes <u>each week</u> in order to keep their levels and recommendations up to date.</p>
<b>Available supports/webinars</b>	<a href="https://about.zearn.org/school-account-resources">about.zearn.org/school-account-resources</a> password: Zearn2020	<a href="https://vimeo.com/mobymax">https://vimeo.com/mobymax</a>	<a href="https://login.i-ready.com/educator/help">https://login.i-ready.com/educator/help</a>	<a href="https://explore.firstinmath.com/program-content/educator-questions/?cc=us">https://explore.firstinmath.com/program-content/educator-questions/?cc=us</a>	<a href="https://www.ixl.com/userguides">https://www.ixl.com/userguides</a>

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## **IMPORTANT Module 1 Notes:**

Based on the **Next Generation Math Standards (to be implemented THIS YEAR)**, please be aware of the following:

- K.CC.B.4c Clarification- Mastery not needed. The word explore indicates the topic is an important concept that builds the foundation for progression toward mastery in later grades. Repeated experiences with these concepts, with immersion in the concrete, are vital.
- K.CC.B.4d Clarification- Mastery not needed. See Above
- K.CC.B.5 To provide clarification language and concept: separate distinct skills.
- K.CC.B.5a Answer counting questions using as many as 20 objects arranged in a line, a rectangular array, and a circle and as many as 10 objects in a scattered configuration, (e. g., “How many \_\_\_\_\_ are there?”).
- K.CC.B..5b Given a number from 1-20, count out that many objects.

## **Module 1 Vocabulary**

<b>Match</b>	<b>Sort</b>	<b>Hidden partners</b>
<b>Counting path</b>	<b>Number story</b>	<b>Zero</b>
<b>Number sentence</b>	<b>5 group</b>	<b>Rows and columns</b>
<b>1 more</b>	<b>1 less</b>	<b>Number path</b>

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## ENRICHMENT EMBEDDED WITHIN MODULE 1

**Pattern:**

- Lessons 3-5: Classify Objects to Find Pattern
- Lesson 35: Arrange Number Towers and Describe Pattern

**Classify:**

- Lessons 3-5: Classify Objects to Find Pattern
- Lesson 37: Classify Objects in 3 Groups

**Categories/Sorting:**

- Lessons 4-7: Sort in Categories by count; Identify Categories given Scenario

**Sequencing:**

- Lesson 1: Counting Beans and Number Given
- Lesson 2: Finger Flashed and Rekenrek
- Lessons 5-8: Counting in a Sequence
- Lesson 10: Double 5 – Group Activity
- Lessons 32-36: Sequences of Quantities

**Logic:**

- Lesson 7: Roll, Grab Count
- Lessons 9-10: Within linear, circular, array dot and scattered dot configurations of numbers 3, 4 and 5, find hidden partners
- Lesson 19: Count 5-7 linking cubes in linear configurations. Match with numeral 7.
- Lesson 22: Arrange and strategize to count 8 beans in circular (around a cup) and scattered configurations
- Lesson 24: Strategize to count 9 objects in circular (around a paper plate) and scattered configurations printed on paper
- Lesson 27: Count 10 objects, and move between all configurations
- Lesson 30: Make math stairs from 1 to 10 in cooperative groups

**Reasoning:**

- Lesson 20: Reason about sets of 7 varied objects in circular and scattered configurations

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***PACING Plan for September 2022 – January 2023***

<b>Grade Kindergarten</b>				
Quarter 1 – weeks	Quarter 1 – dates	Sept – Jan PACING	Zearn Fluency Activities	Instructional Notes
Week 1	9/6 – 9/9			
Week 2	9/12 – 9/16	M1: Lesson 1/2, 3/4	<a href="https://www.zearn.org/k_activities/9">https://www.zearn.org/k_activities/9</a> <a href="https://www.zearn.org/k_activities/11">https://www.zearn.org/k_activities/11</a>	Combine L1 & 2: similar objectives – students identify objects that are the same, but not exactly alike. Use objects from both lessons, and include sentence frame from lesson 2 Combine L3 & 4: similar objectives – both classify objects, but L4 includes categories
Week 3	9/19 – 9/23	M1: Lesson 5, 6, 7	<a href="https://www.zearn.org/k_activities/136">https://www.zearn.org/k_activities/136</a> <a href="https://www.zearn.org/k_activities/15">https://www.zearn.org/k_activities/15</a> <a href="https://www.zearn.org/k_activities/13">https://www.zearn.org/k_activities/13</a>	
Week 4	9/26 - 9/30	M1: Lesson 8, 9, 10	<a href="https://www.zearn.org/k_activities/163">https://www.zearn.org/k_activities/163</a> <a href="https://www.zearn.org/k_activities/10">https://www.zearn.org/k_activities/10</a> <a href="https://www.zearn.org/k_activities/12">https://www.zearn.org/k_activities/12</a>	
<b>i-Ready BOY SCREENING WINDOW (10/3-10/28)</b>				
Week 5	10/3 - 10/7	M1: Lesson 11, 12, 13	<a href="https://www.zearn.org/k_activities/16">https://www.zearn.org/k_activities/16</a> <a href="https://www.zearn.org/k_activities/14">https://www.zearn.org/k_activities/14</a> <a href="https://www.zearn.org/k_activities/21">https://www.zearn.org/k_activities/21</a>	
Week 6	10/11 -10/14	M1: Lesson 14, 15	<a href="https://www.zearn.org/k_activities/20">https://www.zearn.org/k_activities/20</a> <a href="https://www.zearn.org/k_activities/23">https://www.zearn.org/k_activities/23</a>	

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Week 7	10/17 - 10/21	M1: Lesson 16, 17, 18	<a href="https://www.zearn.org/k_activities/58">https://www.zearn.org/k_activities/58</a> <a href="https://www.zearn.org/k_activities/22">https://www.zearn.org/k_activities/22</a> <a href="https://www.zearn.org/k_activities/170">https://www.zearn.org/k_activities/170</a>	
Week 8	10/24 - 10/28	M1: Lesson 19, 20	<a href="https://www.zearn.org/k_activities/169">https://www.zearn.org/k_activities/169</a> <a href="https://www.zearn.org/k_activities/27">https://www.zearn.org/k_activities/27</a>	
Week 9	10/31 - 11/4	M1: Lesson 21, 22, 23	<a href="https://www.zearn.org/k_activities/115">https://www.zearn.org/k_activities/115</a> <a href="https://www.zearn.org/k_activities/170">https://www.zearn.org/k_activities/170</a>	
Week 10	11/7 - 11/10	M1: Lesson 24, 25/26	<a href="https://www.zearn.org/k_activities/112">https://www.zearn.org/k_activities/112</a> <a href="https://www.zearn.org/k_activities/119">https://www.zearn.org/k_activities/119</a> <a href="https://www.zearn.org/k_activities/177">https://www.zearn.org/k_activities/177</a>	Combine L25/26 - same objective, but Lesson 26 includes making a Rekenrek bracelet.
<b>Quarter 2 - weeks</b>	<b>Quarter 2 - dates</b>	<b>Sept - Jan PACING</b>	<b>Zearn Fluency Activities</b>	<b>Instructional Notes</b>
Week 11	11/14 – 11/18	M1: Lesson 27, 28, 29	<a href="https://www.zearn.org/k_activities/172">https://www.zearn.org/k_activities/172</a> <a href="https://www.zearn.org/k_activities/117">https://www.zearn.org/k_activities/117</a>	
Week 12	11/21 – 11/23	M1: Lesson 30, 31	<a href="https://www.zearn.org/k_activities/174">https://www.zearn.org/k_activities/174</a> <a href="https://www.zearn.org/k_activities/118">https://www.zearn.org/k_activities/118</a>	
Week 13	11/28 – 12/2	M1: Lesson 32, 33/34, 35/36	<a href="https://www.zearn.org/k_activities/181">https://www.zearn.org/k_activities/181</a> <a href="https://www.zearn.org/k_activities/119">https://www.zearn.org/k_activities/119</a> <a href="https://www.zearn.org/k_activities/114">https://www.zearn.org/k_activities/114</a>	Combine L33 & 34: Similar objectives, counting down from 10/one less Combine L35 & 36: similar objectives, arranging towers and other objects from 10 to 1 and crossing out 1 to tell one less
Week 14	12/5 – 12/9	M1: Lesson 37 M2: Lesson 1, 2/3/4	<a href="https://www.zearn.org/k_activities/29">https://www.zearn.org/k_activities/29</a> <a href="https://www.zearn.org/k_activities/39">https://www.zearn.org/k_activities/39</a> <a href="https://www.zearn.org/k_activities/177">https://www.zearn.org/k_activities/177</a>	L1 provides ample practice on sorting cutouts, option to add manipulatives into the lesson instead Combine L2, 3, 4 same objective - each lesson focuses on different shapes (triangles, rectangles, circles/hexagons) so combine into 1 lesson and provide instruction/examples for each of the shapes

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Week 15	12/12 – 12/16	M2: Lesson 5/8/9, 6/7	<a href="https://www.zearn.org/k_activities/32">https://www.zearn.org/k_activities/32</a> <a href="https://www.zearn.org/k_activities/28">https://www.zearn.org/k_activities/28</a>	Combine L6 & 7: similar objective - L7 adds naming solid shapes Combine L5, 8 & 9: focus instruction on next to, behind, in front of including flat (L 5) and solid (L 8) shapes. L9 adds the skill of differing between solid or flat shapes, and identifying shapes regardless of orientation or size. In L9 focus on how 2D and 3D shapes differ Omit lesson 10
Week 16	12/19 – 12/23	M3: Lesson 1/3, 4/5, 7	<a href="https://www.zearn.org/k_activities/34">https://www.zearn.org/k_activities/34</a> <a href="https://www.zearn.org/k_activities/38">https://www.zearn.org/k_activities/38</a>	Combine L1 & 3: Both lessons focus on longer than/shorter than using objects; L 3 problem set may be used as a possible drawing activity to be completed together or even as a part of art class Combine 4 & 5: similar objectives - longer/shorter w/ cube sticks Omit lesson 2 and 6
Week 17	1/3 – 1/6	M3: Lesson 8/9, 10/11, 13	<a href="https://www.zearn.org/k_activities/29">https://www.zearn.org/k_activities/29</a> <a href="https://www.zearn.org/k_activities/35">https://www.zearn.org/k_activities/35</a>	Combine L8 & 9: similar objectives - comparing weight heavier/lighter with classroom objects and intro to scale Combine L10 & 11: similar objectives - students weigh/manipulate objects on balance scale. Omit lesson 12
Week 18	1/9 – 1/13	M3: Lesson 14, 15, 16	<a href="https://www.zearn.org/k_activities/41">https://www.zearn.org/k_activities/41</a> <a href="https://www.zearn.org/k_activities/36">https://www.zearn.org/k_activities/36</a>	
Week 19	1/17 – 1/20	M3: Lesson 17, 18, 19	<a href="https://www.zearn.org/k_activities/123">https://www.zearn.org/k_activities/123</a> <a href="https://www.zearn.org/k_activities/170">https://www.zearn.org/k_activities/170</a> <a href="https://www.zearn.org/k_activities/39">https://www.zearn.org/k_activities/39</a>	
<b>i-Ready MOY SCREENING WINDOW (1/23-2/17)</b>				
Week 20	1/23 – 1/27	M3: Lesson 20, 21, 22	<a href="https://www.zearn.org/k_activities/122">https://www.zearn.org/k_activities/122</a> <a href="https://www.zearn.org/k_activities/40">https://www.zearn.org/k_activities/40</a>	