MORE OPPORTUNITIES FOR EVERY STUDENT TO LEARN MATH
Students learn the same concepts digitally as they do with their teacher, creating multiple opportunities to engage with each lesson and build deep understanding.

SUPPORTS TEACHERS WITH DAILY DIFFERENTIATED INSTRUCTION
Designed by teachers to include the materials, data, and knowledge to plan and deliver daily, differentiated instruction that supports all learners.

ENGAGING, CHALLENGING, AND SUPPORTIVE FOR ALL STUDENTS
A learning experience where every student receives the exact support they need and believes in their capacity to grow as learners.

Watch Zearn Math Overview (15 Minutes) →

PUBLISHED BY ZEARN
Zearn is a nonprofit curriculum publisher on a mission to ensure all children love learning math. We work with teachers nationwide to build inclusive classroom communities where all students have equal opportunities to belong and deeply learn the math content of their grade.

Want to learn how we can support your curriculum review?
Contact us →
Sample Our Curriculum

IN THIS GUIDE YOU WILL FIND:

- An orientation to Kindergarten curricular materials, from grade-level planning materials to lesson-level activities
- Teacher Materials for the first lesson of Kindergarten, with links to access content
- Student Materials for all Kindergarten Digital Activities, with links to access content
- Step-by-step instructions on how to access all materials using a Zearn Math account

ZEARN MATH TIP

The materials referenced in this document reflect one daily lesson within Kindergarten. Short-cut weblinks are included to access all Lesson 1 materials. Every lesson in Kindergarten can be accessed with a Zearn account.
Zearn Math Curricular Materials

COMPREHENSIVE MATERIALS TO SUPPORT DAILY DIFFERENTIATED INSTRUCTION

Teacher Materials

OVERVIEW MATERIALS
Zearn Math offers grade- and unit-level overview materials that support teachers with planning and delivering differentiated instruction that meets the needs of all learners. These materials include pacing guidance, detail on the standards covered, summaries of the major work of the grade, and the learning objectives of each unit (which Zearn Math calls Missions). Zearn Math also provides comprehensive professional development designed to support grade-level teams in preparing for teaching each upcoming unit and planning daily instruction.

LESSON MATERIALS
Zearn Math provides comprehensive materials that build deep understanding of concepts and flexible problem solving skills through an emphasis on visualization, drawing to solve, and concrete representations of abstract concepts. Curricular materials can be used across a mix of instructional formats, including both small group and whole group learning.

Student Materials
Zearn Math for Kindergarten includes developmentally appropriate Digital Activities, which are short, engaging, and designed to build number sense. During the Digital Activities, students build number sense at their own pace through an intentional progression from Numbers to 5 to Numbers to 20, and receive precise digital feedback at the moment of misconception.

• Kindergarten Overview
• Kindergarten Mission Overviews
• Curriculum Study
• Professional Development

• Whole Group Fluency
• Whole Group Word Problems
• Whole Group Lessons
• Progress Report

• Digital Activities
Introduction to Kindergarten

152 Lessons

Kindergarten mathematics is about: (1) Representing, relating, and operating on whole numbers, initially with sets of objects, and (2) describing shapes and space.

Each grade of Zearn Math consists of Missions (Zearn Math nomenclature for units), Topics, and Lessons.

Mission 1: Numbers to 10

Kindergarten starts out with solidifying the meaning of numbers to 10 with a focus on embedded numbers and relationships to 5. Because fluency with addition and subtraction within 5 is a Kindergarten goal, addition within 5 is begun in Mission 1 as another representation of the decomposition of numbers.

Attributes of Two Related Objects

Topic A introduces classification activities to allow students to analyze and observe their world and articulate their observations. Students are presented with pairs of matching objects and encouraged to reason about what makes either exactly the same, or similar but different because they differ in color, size or position.

In this lesson, students analyze pairs of objects and identify whether the two objects are exactly the same or not exactly the same. This analysis prepares students to recognize specific differences in objects and reason about pairing two objects according to their visual pattern, color, or use in later lessons.
Kindergarten Teacher Materials

1 OF 37 LESSONS WITHIN THIS MISSION

LESSON 1

Please sign in to Zearn.org with the username and password provided to access materials. If you do not have these sign in credentials and are conducting a curriculum review, please contact us at info@zearn.org

Overview Materials

KINDERGARTEN OVERVIEW
Zearn Math Grade Overviews include pacing guidance, detail on the standards covered, and identification of the mathematical practices relevant to the Missions of the grade. Each Grade Overview also provides summaries of the major work of the grade and the learning objectives of each Mission. Grade Overviews are accessible through educator Zearn accounts.

Review Kindergarten Overview

KINDERGARTEN MISSION 1 OVERVIEW
Zearn Math Mission Overviews provide instructional information at a topic level, grouping lessons that teach the same concept. The overview includes a listing of lessons within the Mission (including optional lessons) and a listing of new and recently introduced terms.

Review KM1 Mission Overview
CURRICULUM STUDY PROFESSIONAL DEVELOPMENT (PD)

The purpose of Curriculum Study is to deepen understanding of each unit of the Zearn curriculum. Participants will collaboratively examine curricular materials, solving math problems using strategies from the mission, and analyze example student work.

Review Sample Curriculum Study (G3M1) →

Lesson Materials

Every day, teachers lead Fluency, Word Problems, and Lessons from Teacher Materials. Teachers may choose to deliver instruction in stations or as a whole group. Daily Teacher-Led Instruction builds number sense with concrete manipulatives, pictorial representations, and discussion.

WHOLE GROUP: FLUENCY

During the daily fluency activities, students have opportunities for application practice to help build number sense. In the fluency activities for this first Kindergarten Mission, students focus on counting and ultimately writing numbers to 10.

The Lesson 1 fluency begins with students practicing counting to 3 using concrete manipulatives. Students then progress to showing numbers 1-3 by adding and removing concrete objects – beans or small counters – to match the teacher’s prompts. This fluency work prepares students for upcoming lessons in which they work with numbers in depth.

WHOLE GROUP: WORD PROBLEMS

Students share their own thinking aloud and discuss their reasoning with classmates throughout daily problem solving. As students share their reasoning, are exposed to other perspectives, and engage in mathematical sense-making, they are able to deepen their own understanding and develop a strong math foundation.

In Lesson 1, the teacher holds up a blue sock and asks students to draw a picture of the sock. In the debrief, students look at all the socks drawn and identify those that are exactly the same (or very, very close) and those that are not exactly the same. This exercise prepares students for similar, more in-depth exercises during the lesson.
WHOLE GROUP: LESSON

Each daily lesson is designed to support teachers in planning and delivering instruction that helps students build deep understanding of new concepts. During each lesson, students model math with concrete manipulatives, represent their work on paper, discuss their reasoning aloud, and receive direct feedback from their teacher and classmates. This provides all learners with the opportunity to construct physical models of abstract mathematical ideas and test and confirm their thinking.

Throughout the materials, teachers are supported with guiding questions they can use as opportunities to give feedback, debrief questions to summarize the lesson, and important guidance on how to adjust the lesson to meet the needs of all learners. Each lesson also provides concrete materials to use to help students model math.

The first Kindergarten lesson starts with the teacher displaying pairs of socks (or other pairs of items) of a variety of colors, patterns, and sizes. When prompted, students call out which pairs of socks are exactly the same and not exactly the same. Then, students take one item each and search for another student whose item makes an exact match. Throughout the lessons, students are encouraged to explain their thinking and justify their reasoning out loud.

Review Daily Fluencies, Word Problems, and Lessons ➔

ZEARN MATH TIP

During Whole Group Lessons, students have opportunities to work with concrete manipulatives. This provides all learners with the opportunity to construct physical models of abstract mathematical ideas and test and confirm their thinking.

Recommended Concrete Materials by Grade ➔
Please sign in to Zearn.org with the username and password provided to access materials. If you do not have these sign in credentials and are conducting a curriculum review, please contact us at info@zearn.org

ZEARN MATH TIP

When students log in, they are directed to their personal Student Feed, where they can see their currently assigned Digital Activity. Students can only access the next Digital Activity in the sequence once they complete their currently assigned activity.

Digital Activities

Digital Activities for K students are short, engaging activities designed to build number sense through an intentional progression from Numbers to 5 to Numbers to 20.

Each activity takes about ten minutes. Students advance through activities at their own pace and can revisit activities for additional practice.

Review All K Digital Activities

THE COUNTING TRAIN

The Counting Train activity prompts students to choose different balloons on screen that are each filled with a different number of colorful and fun animals. Students count the objects and select the train car number that matches the total.

Try The Counting Train
**SUM SNACKS**

Sum Snacks asks students to give playful, onscreen animals fruit to eat, prompting them to count each additional piece of fruit. As the student increases the amount of fruit, numbers appear below each piece of fruit to help count on to the total and begin to build number sense around embedded numbers and addition.

Try Sum Snacks ➔

**HOP SKIP SPLASH!**

Hop Skip Splash prompts students to count additional objects needed to help the frog hop across a stream. Students are asked to both count up and count down for each problem, solidifying their understanding of the counting sequence.

Try Hop Skip Splash! ➔

**MAKE AND BREAK**

Make and Break asks students to decompose and compose numbers 5 to 20 using interactive five frames, ten frames and number bonds. Students are prompted to complete addition or subtraction sentences, reinforcing how their practiced counting abilities, knowledge of the value of numbers, and work with embedded numbers connects to solving addition and subtraction equations.

Try Make and Break ➔
NEXT STOP TOP

Next Stop Top asks students to decompose and compose numbers 5 to 20 using interactive number bonds that prompt students to practice identifying 5 and 10 as embedded numbers. The activity engages students by having them work their way up to the top of a building, stopping at each floor to decompose and compose colorful ten frames (depicted as large windows!).

Try Next Stop Top

ZEARN MATH TIP

Embedded supports in the Digital Activities precisely address misconceptions in real time and give all students opportunities to try again. As you explore the Digital Activities, make sure to get a few answers incorrect to experience the embedded and precise feedback.

As students work through Digital Activities, the Zearn Math Activity Tracker provides teachers with real-time data into student progress through the sequence of Digital Activities.
Quickstart to navigating Zearn Math online

HOW TO ACCESS ALL ZEARN MATH LESSONS AND MATERIALS

Go to zearn.org ➔

Type in username and password

Move mouse cursor to Curriculum tab in top navigation bar
Select Kindergarten for “Scope & Sequence”

On Kindergarten Overview screen, scroll down and select “View All” for digital activities
1. Select a digital activity

Scroll down to see all Kindergarten activities

170 activities total