Let's Do MATHEMATICS

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Let's Do Mathematics

Let's Do Mathematics is a series covering levels K-6 and is fully aligned to the United States Common Core State Standards (USCCSS). Each level consists of two books (Book A and Book B) and combines textbook-style presentation of concepts as well as workbook practice.

Central to the USCCSS is the promotion of problem-solving skills and reasoning. Let's Do Mathematics achieves this by teaching and presenting concepts through a problem-solving based pedagogy and using the concrete-pictorial-abstract (CPA) approach. Learners acquire knowledge and understanding of concepts through a guided progression beginning with concrete examples and experiences which then flow into pictorial representations and finally mastery at the abstract and symbolic level. This approach ensures that learners develop a fundamental understanding of concepts rather than answering questions by learned procedures and algorithms.

Key features of the series include:

1 Anchor Task

Open-ended activities serve as the starting point for understanding new concepts. Learners engage in activities and discussions to form concrete experiences before the concept is formalized.



🔒 Let's Learn

Concepts are presented in a clear and colorful manner. Worked problems provide learners with guided step-by-step progression through examples. Series mascots provide guidance through helpful comments and observations when new concepts are introduced.



Learners demonstrate their understanding of concepts through a range of exercises and problems to be completed in a classroom environment. Questions provide a varying degree of guidance and scaffolding as learners progress to mastery of the concepts.

🕋 At Home

Further practice designed to be completed without the guidance of a teacher. Exercises and problems in this section follow on from those completed under Let's Practice.

Hands On

Learners are encouraged to 'learn by doing' through the use of group activities and the use of mathematical manipulatives.

Solve It!

Activities that require learners to apply logical reasoning and problem-solving. Problems are often posed which do not have a routine strategy for solving them. Learners are encouraged to think creatively and apply a range of problem-solving heuristics.

Looking Back

Consolidated practice where learners demonstrate their understanding on a range of concepts taught within a unit.



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Counting to 10,000

🔠 Let's Learn

Count on in hundreds from 100.



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100 more than 900 is 1,000. We read 1,000 as **one thousand**.

Count on in thousands from 1,000.



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1,000 more than 9,000 is 10,000. We read 10,000 as **ten thousand**.

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(a) +10 +10 +10 +10 6,340 6,360 6,320 6,330 6,350 (b) +10 +10 +10 +10 8,480 8,490 8,500 8,510 8,520

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Count on in thousands.



Let's Practice

1. Count the jelly beans.







2. Count the blocks.







Hands On

Form circles of 4 to 6 students. Each group receives a bean bag or ball. Your teacher will write a number on the whiteboard and say a count-on number.

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The student with the bean bag counts on from the number on the whiteboard and throws the bean bag to the next person in the group. They continue counting on and then pass the bean bag along. Continue until the teacher says 'Stop!'



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🕋 At Home

1. Count the lollipops.





2. Count the blocks.





3. Count on in 1000s.



Numbers to 10,000

🔠 Let's Learn

Find the number represented by the blocks.



Find the number represented in the place value chart.

(a)ThousandsHundredsTensOnesImage: Construction of the second sec

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We say: Seven thousand, five hundred thirty-nine. We write: 7,539.

(b) Thousands Hundreds Tens Ones

We say: Eight thousand, four hundred forty. We write: 8,440.

(C) Thousands Hundreds Tens Ones

We say: Six thousand, nine. We write: 6,009.

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(d)ThousandsHundredsTensOnesImage: Object of the second se

We say: Five thousand, nine hundred. We write: 5,900.

Let's Practice

1. How many jelly beans are there?





3. Write as numerals and words.

(a)	Thousands	Hundreds	Tens	Ones

(b)	Thousands	Hundreds	Tens	Ones

(C)	Thousands	Hundreds	Tens	Ones

🖹 At Home

1. How many lollipops are there?





2. Write as numerals and words.

(a)	Thousands	Hundreds	Tens	Ones

(b) Thousands Hundreds Tens Ones

(C)	Thousands	Hundreds	Tens	Ones
		•		•

- 3. Write the number in words.
 - (a) 1,216









Place Value

🔠 Let's Learn

Find the value of each digit in the numbers shown.



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The digit in the Thousands place is 1. It represents 1,000. The digit in the Hundreds place is 4. It represents 400. The digit in the Tens place is 6. It represents 60. The digit in the Ones place is 3. It represents 3.

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1,000 + 400 + 60 + 3 = 1,463





The digit in the Thousands place is 8. It represents 8,000. The digit in the Hundreds place is 5. It represents 500. The digit in the Tens place is 9. It represents 90.

8,000 + 500 + 90 = 8,590



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Let's find the value of each digit in the number.



The value of the digit 5 is 5,000. The value of the digit 6 is 600. The value of the digit 9 is 90. The value of the digit 8 is 8. 5,000 + 600 + 90 + 8 = 5,698



The value of the digit 1 is 1,000. The value of the digit 3 is 300. The value of the digit 5 is 50. The value of the digit 7 is 7. 1,000 + 300 + 50 + 7 = 1,357

Let's Practice

1. Write the numbers shown in the place value charts.

(a)	Thousands	Hundreds	Tens	Ones

(b)	Thousands	Hundreds	Tens	Ones

(C)	Thousands	Hundreds	Tens	Ones

(d)

Thousands	Hundreds	Tens	Ones

2. Fill in the blanks.





4. Write the value of each digit. Then add the values.





Hands On

Work in pairs. Partner 1 uses base-ten blocks to make a 4-digit number. Partner 2 uses place value tiles to represent the same number. Write the number as numerals and in words. Switch roles and repeat.

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Number	Words	

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齐 At Home

1. Write the numbers shown in the place value abacus.



2. Fill in the blanks.

3. Write the value of each digit. Then add the values.

