

# Mastering Numeration 2



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**Mastering Numeration 2** provides students in grade 2 with a strong foundation in understanding basic number concepts. Some of the skills taught in this program include: adding and subtracting two-digit numbers with regrouping, multiplication, division and working with simple fractions. Helpful audio instructions and help buttons ensure that students will navigate these activities easily and with confidence. Students will be motivated to succeed by a series of colorful pictures and sounds as their rewards.

### Targeted Skills

- Ordinal Numbers 1 to 30.
- Add and subtract two-digit numbers with regrouping.
- Recognize and compare simple fractions.
- Multiplication and division including multiplication facts up to  $4 \times 4$  and the division facts up to  $16/4$ .
- Teaches students how to recognize and compare simple fractions.
- Count coins and make change up to one dollar.
- Concepts of greater than, less than and equal to.
- Count by 1's, 2's, 5's, 10's, 20's up to 100 and count backwards by 1's from 20.
- Reorder groups of numbers from 1 to 100.

### Teacher Dashboard

The Teacher Dashboard tracks student progress throughout each program and records the percentage score for every activity completed. This feature provides an overview of how well a student is progressing and allows the teacher to identify strengths and weaknesses.

- Records students' results automatically as they work.
- Prints reports quickly and easily for sharing with parents and staff.
- Provides summary reports by subject or detailed reports by activity.
- Allows teachers to print reports for individual students or an entire class.
- Stores student marks in one central location for all programs.

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## Program Outline

The program is broken down into 10 main units, which can all be accessed from the main menu. On the following pages, each of these different units are broken down. The main menu units are:

1. Working with Numbers
2. Comparing Numbers
3. Addition Facts
4. Addition Facts
3. Subtraction Facts
6. Subtraction
7. Money
7. Fractions
9. Multiplication and Division
10. Ordinal Numbers

# Mastering Numeration 2

## 1 - Working with Numbers

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
<b>Fill in the Blanks 0 to 50</b> <b>Fill in the Blanks 50 to 100</b>	Type the missing numbers.	Count up by 1's.
<b>Counting with an Abacus (by 2's)</b> <b>Counting with an Abacus (by 5's)</b> <b>Counting with an Abacus (by 10's)</b>	Click in groups of 2, 5 or 10 beads to move them along the abacus to count up to the number shown.	Count up by 2's, 5's and 10's by using an abacus.
<b>Count by 2's</b> <b>Count by 5's</b>	Type the missing numbers.	Count up by 2's and 5's.
<b>Count by 10's</b> <b>Count by 25's</b>	Type the missing numbers.	Count up by 10's and 25's.
<b>Counting Backwards from 10</b> <b>Counting Backwards from 20</b>	Count backwards and type the missing numbers.	Count backwards by 1's from 10 and 20.
<b>Number Words 1 to 20</b>	Type the number that matches each number word.	Read number words 1 to 20.

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## 2 - Comparing Numbers

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
<b>Compare 20 to 50</b> <b>Compare 50 to 100</b>	Click on the number units to put the correct number in the tens box and the ones box.	Represent two digit numbers in terms of place value - tens and ones.
<b>Biggest Number 20 to 50</b> <b>Biggest Number 50 to 100</b>	Click on the biggest number.	Compare numbers and identify which number has the greatest or smallest value.
<b>Smallest Number 20 to 50</b> <b>Smallest Number 50 to 100</b>	Click on the smallest number.	
<b>Color a Pattern Numbers Under 50</b> <b>Color a Pattern Numbers Over 50</b>	Color the number squares in order to make a pattern or picture on this grid.	Count by 1's.
<b>Unscramble</b>	Click on the numbers in the correct order going from the smallest to the largest.	Count up by 1's. Reorder out of sequence numbers into their proper numerical sequence.
<b>Type the Numbers in Order</b>	Type the numbers in order from smallest to largest.	
<b>Pick the Middle Number</b>	Click on the middle number in each group.	Compare numbers and identify which number has the greatest or smallest value.
<b>Find the in Between Number</b>	Click on the number that belongs between the two numbers at the top.	
<b>Bigger, Smaller or Same As</b>	Type how many objects you see on each side of the sign.	Understand one-to-one correspondence between number and visual group of objects.
<b>Choose the Correct Sign</b>	Click on the correct sign to compare the amount of items in each box.	Understand greater than, less than, and equal signs and apply them to pairs of numbers 1 to 100.

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## 3 - Addition Facts

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
<b>Addition Facts - #s 1 to 9</b>	Pick the correct answer to the addition problems.	Review addition facts to 18.

## 4 - Addition

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
<b>Add 2 Digits with 1 Digit</b> <b>Add 3 Digits with 1 Digit</b> <b>Add 2 Digits with 2 Digits</b>	Type the correct answer to the addition problems.	Addition: 2 digits to 1 digit. Addition: 3 digits to 1 digit Addition: 2 digits to 2 digits.
<b>Regrouping 1</b> <b>Regrouping 2</b> <b>Mixed Practice</b>		Addition: 2 digits to 1 digit. Addition: 3 digits to 1 digit Addition: 2 digits to 2 digits.

## 5 - Subtraction Facts

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
<b>Subtraction Facts - #s 4 to 9</b>	Type the correct answer to the subtraction problems.	Review subtraction facts to 18

## 6 - Subtraction Facts

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
<b>Learn to Subtract</b>	Type the correct answer to the subtraction problems.	Subtraction: 1 digit from 2 digits.
<b>Subtract 2 Digits from 2 Digits</b>		Subtraction: 2 digit from 2 digits.
<b>Regrouping 1</b>		Subtraction: 1 digit from 2 digits.
<b>Regrouping 2</b>		Subtraction: 2 digit from 2 digits.
<b>Mixed Practice</b>		

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## 7 - Money

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
<p>Dimes Quarters Dimes &amp; Pennies Dimes &amp; Nickels Dimes, Nickels &amp; Pennies Quarters &amp; Dimes Quarters &amp; Nickels Quarters, Dimes, Nickels &amp; Pennies Counting Change (2 activities each)</p>	<p>Click on all the coins to count them, then click on the answer.</p>	<p>Understanding value of coins. Adding and subtracting change up to one dollar.</p>

## 8 - Fractions

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
<b>Dividing into Equal Parts</b>	Click on the checkmark if the shape is divided into equal parts.	Understand if a shape is divided into equal sections.
<b>Which One Has Equal Parts</b>	Click on the shape that is divided into equal parts.	
<b>Count the Equal Parts</b>	Type how many equal parts each shape is divided into.	Understand how many sections a shape is divided into.
<b>Making Fractions</b>	Type how many equal parts are in each shape, then type how many parts are colored.	<p>Understand how many sections a shape is divided into.</p> <p>Understand how many sections of a shape are highlighted.</p>
<b>Fraction Names</b>	Match the fraction with the fraction word.	Understand basic fraction words - halves, thirds, quarters.
<b>Color the Fractions</b>	Chose a color button, then color the fraction that you hear.	<p>Understand how many sections a shape is divided into.</p> <p>Understand how many sections of a shape are highlighted.</p>

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## 9. Multiplication and Division

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
<b>Learn to Multiply</b> <b>(3 activities)</b>	Type the answer for each question.	Understand multiplication (x groups of x). Calculate basic multiplication problems.
<b>Learn to Divide</b> <b>(3 activities)</b>		Understand division (x groups from x). Calculate basic division problems.

## 10. Ordinal Numbers

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
<b>Ordinal Numbers 1 to 10</b> <b>Ordinal Numbers 11 to 20</b> <b>Ordinal Numbers 21 to 30</b>	Click on the picture that matches the ordinal number you hear.	Understand ordinal numbers 1st through 30th.
<b>Learn the Numbers 1 to 10</b> <b>Learn the Numbers 11 to 20</b> <b>Learn the Numbers 21 to 30</b>	Click on the number that matches the ordinal for the number you hear.	Understand ordinal numbers 1st through 30th.