



Mastering Numeration 2

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 4×4 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.

Marks Manager

The Marks Manager 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
5. Subtraction Facts
6. Subtraction
7. Money
8. Fractions
9. Multiplication and Division
10. Ordinal Numbers

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1 - Working with Numbers

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Fill in the Blanks 0 to 50 Fill in the Blanks 50 to 100	Type the missing numbers.	Count up by 1's.
Counting with an Abacus (by 2's) Counting with an Abacus (by 5's) Counting with an Abacus (by 10's)	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.
Count by 2's Count by 5's	Type the missing numbers.	Count up by 2's and 5's.
Count by 10's Count by 25's	Type the missing numbers.	Count up by 10's and 25's.
Counting Backwards from 10 Counting Backwards from 20	Count backwards and type the missing numbers.	Count backwards by 1's from 10 and 20.
Number Words 1 to 20	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
Compare 20 to 50 Compare 50 to 100	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.
Biggest Number 20 to 50 Biggest Number 50 to 100	Click on the biggest number.	Compare numbers and identify which number has the greatest or smallest value.
Smallest Number 20 to 50 Smallest Number 50 to 100	Click on the smallest number.	
Color a Pattern Numbers Under 50 Color a Pattern Numbers Over 50	Color the number squares in order to make a pattern or picture on this grid.	Count by 1's.
Unscramble	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.
Type the Numbers in Order	Type the numbers in order from smallest to largest.	
Pick the Middle Number	Click on the middle number in each group.	Compare numbers and identify which number has the greatest or smallest value.
Find the in Between Number	Click on the number that belongs between the two numbers at the top.	
Bigger, Smaller or Same As	Type how many objects you see on each side of the sign.	Understand one-to-one correspondence between number and visual group of objects.
Choose the Correct Sign	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
Addition Facts - #s 1 to 9	Pick the correct answer to the addition problems.	Review addition facts to 18.

4 - Addition

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
Add 2 Digits with 1 Digit Add 3 Digits with 1 Digit Add 2 Digits with 2 Digits	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.
Regrouping 1 Regrouping 2 Mixed Practice		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
Subtraction Facts - #s 4 to 9	Type the correct answer to the subtraction problems.	Review subtraction facts to 18

6 - Subtraction Facts

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

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7 - Money

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

8 - Fractions

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

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9. Multiplication and Division

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

10. Ordinal Numbers

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