Number Concepts Grade 4

Developed by teachers and mathematics specialists, **Number Concepts Grade 4** provides the strategies, skills and practice your students need to develop strong mathematics proficiency. The program teaches the major concepts in grade 4 level numeration. Helpful clues and examples, along with exciting audio-visual content, ensure that students of all learning styles can use the software independently. **Number Concepts Grade 4** is an effective and engaging way to improve student performance with the main concepts of numeracy.

Targeted Skills

- Number Sense: numbers to 100,000 - standard form/expanded forms, greater than/less than, place value, ordering, rounding, skip counting, written forms, word problems

- Fractions: identifying as shapes or on a line, greater than/less than, ordering, adding/subtracting with like denominators, word problems

- Decimals: understand and compare decimals to hundredths, adding decimals to hundredths, converting to fractions, word problems

- Mixed Operations: converting fractions to decimals, real-world word problems

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.

Program Outline

The program is broken down into 4 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. Number Sense

2. Fractions

3. Decimals

4. Mixed Operations

1 - Number Sense

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Base Ten Blocks	Identify visual representation of a number with base ten blocks.	use base ten blocks to identify numbers to 100,000
Write in Standard Form I	Write an expanded form number in standard form.	understand expanded and standard forms for numbers up to 100,000
Write in Standard Form II		
Write in Expanded Form	Write a standard form number in expanded form.	
Place Value	Identify the digit in the given place value.	understand place value for numbers to 100,000
Complete Number Chart		
Make Biggest and Smallest	Make the biggest and smallest number you can from a given set of digits.	
Greater, Less or Equal?	Compare and order numbers to 100,000	order numbers to 100,000
Order the Numbers		
Round and Round	Round numbers to various place values up to 100,000	round numbers to 100,000
Rounding Chart		
Skip Counting	Count by various increments up to 100,000	understand skip counting up to 100,000
Complete the Check	Real-world problems involving written form of numbers to 100,000.	apply mathematical concepts to real-world applications

understand written form of numbers to 100,000 |
| **Written Populations** | | |
| **Number Sense Word Problems** | | |

2 - Fractions

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Does it Show Equal Parts?	Is the given shape divided equally?	understand that fractions are divided into equal parts
Click the Correct Fraction	Identify the written form of a fraction.	understand fraction notation
What Fraction is Colored?	Identify the colored fraction of a divided box as a fraction.	identify fractions from a given example
Equal Fractions	Step-by-step guide through basic fraction equivalencies	understand equal fractions
Fractions on a Line	Identify fractions on a given number line.	understand relationship between fractions and a number line
Greater, Less or Equal?	Compare the value of two fractions.	compare the value of various fractions
Order the Fractions	Order several given fractions.	
Adding Fractions I	Add and subtract fractions with equal denominators.	add and subtract fractions with equal denominators
Adding Fractions II		
Adding Fractions III		
Subtracting Fractions I		
Subtracting Fractions II		
Fraction Word Problems	Solve mathematical word problems involving fractions.	apply mathematical concepts to real-world applications compare the value of various fractions add and subtract fractions with equal denominators

3 - Decimals

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Which Decimal is Colored? I	Identify the colored fraction of a divided box as a decimal.	identify decimals from a given example
Which Decimal is Colored? II		
Click the Correct Decimal	Identify the written form of a given decimal.	understand written form of decimals to hundredths
Write the Decimal	Complete the written form of a given decimal.	
Place Value	Identify the digit which occupies a given place value in a decimal.	understand place value for decimals to hundredths
Order the Decimals	Click on the decimals in order.	order decimals to hundredths
Count by Tenths	Count up or down by tenths from a given numbers.	count up or down by tenths from a given decimal
Decimals on a Line	Identify decimals on a given number line.	understand relationship between decimals and a number line
Adding Decimals I	Add and subtract decimals to hundredths.	add and subtract decimals to hundredths
Adding Decimals II		
Subtracting Decimals I		
Subtracting Decimals II		
Round and Round	Round decimals to various place values up to hundredths.	round decimals up to hundredths
Money Word Problems	Solve mathematical word problems involving money and decimals.	apply mathematical concepts to real-world applications add and subtract decimals to hundredths
Decimal Word Problems		

4 - Mixed Operations

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Fractions and Decimals I	Type the missing number to convert between given fractions and decimals.	understand relationship between fractions and decimals convert between fractions and decimals
Fractions and Decimals II		
Fractions and Decimals III		
Fractions and Decimals IV		
Word Problems I	Use four operations and all numeracy concepts to solve various real-world word problems.	apply mathematical concepts to real-world applications
Word Problems II		