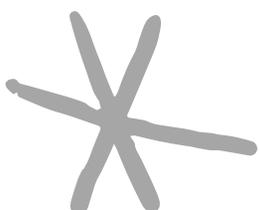
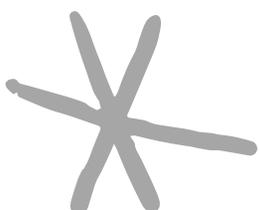




SUMMER SCHOOL PROGRAM
GUIDE







ABOUT

Summer school is a good time to prepare students for the new year. We have designed this program to help students going into grades 3 to 8 access the material they will learn in 2022-2023.

The program for each grade is composed of 4 parts that cover the main skills needed.

HOW TO USE THE PROGRAM?

To use this program, an instructor or teacher should create the assignment for each lesson. They should follow the content of the grade level that the students are going to. So, for example, for students who are going into 5th grade, teachers should use the content under Grade 5.

For every grade, there are math activities that can fill 4-6 weeks of summer school. Those activities are focused on the prerequisites for the major standards of the following academic year.



SCOPE AND SEQUENCE

GRADE 3

(1) Adding and subtracting 2-digit numbers

- Adding within 20
- Subtracting within 20
- Adding 2-digit numbers
- Subtracting 2-digit numbers

(2) Understanding place value of 3-digit numbers

- Understanding Hundreds
- Compare 3-digit whole numbers
- Reading and Writing Whole Numbers

(3) Use place value to add and subtract within 1000

- Adding 3-digit numbers
- Subtracting 3-digit numbers

(4) Measuring lengths and relating addition and subtraction to lengths

- Understanding length
- Measuring cm and inch with a ruler
- Whole numbers on the number line



SCOPE AND SEQUENCE

GRADE 4

(1) Use place value understanding to perform multi-digit arithmetic

- Place Value, up to 100s
- Rounding Whole Numbers, up to 100s
- Adding 3-digit numbers (within 1000)
- Subtracting 3-digit numbers
- Add and subtract within 1000

(2) Multiply and divide within 100

- Multiplication table (1-9)
- Dividing by (1-10)
- Multiplication word problems
- Division word problems

(3) Solve problems involving the four operations

- Two-step word problems
- Word problems as equations with unknown

(4) Develop understanding of fractions

- Fractions from figures
- Unit fractions on the number line
- Fractions on the number line
- Equivalent fractions
- Comparing fractions (same num. or den.)



SCOPE AND SEQUENCE

GRADE 5

(1) Perform operations with multi-digit whole numbers

- Adding multi-digit whole numbers
- Subtracting multi-digit whole numbers
- Multiplying 3 and 4-digit by 1-digit numbers
- Multiplying 2-digit numbers
- Dividing up to 4-digits by 1-digit numbers (no remainder)
- Dividing up to 4-digit by 1-digit numbers (with remainder)

(2) Extend understanding of fraction equivalence and ordering

- Fractions on the number line
- Equivalent fractions
- Comparing fractions
- Mixed numbers

(3) Perform operations on fractions with same denominators

- Adding fractions (same denominator)
- Subtracting fractions (same denominator)
- Adding and subtracting mixed numbers (same denominator)
- Multiplying fractions and whole numbers

(4) Understand decimal notation for fractions

- Adding fractions (with den. 10 and 100)
- Fractions to decimals
- Decimals on the number line
- Comparing decimals to hundredths



SCOPE AND SEQUENCE

GRADE 6

(1) Perform operations on fractions

- Adding fractions
- Subtracting Fractions
- Multiplying fractions
- Dividing unit fractions by whole numbers
- Dividing whole numbers by unit fractions

(2) Fluently divide multi-digit whole numbers

- Dividing up to 4-digit by 1-digit numbers (with remainder)
- Dividing 3-digit by 2-digit numbers (no remainder)
- Dividing 4-digit by 2-digit numbers (no remainder)
- Dividing multi-digit numbers (with remainder)

(3) Perform operations on decimals to hundredths

- Adding decimals
- Subtracting decimals
- Multiplying decimals
- Dividing decimals

(4) Analyze patterns and use the coordinate plane to solve problems

- Understanding the coordinate systems
- Comparing patterns
- Plotting points with positive coordinates



SCOPE AND SEQUENCE

GRADE 7

(1) Dividing fractions

- Dividing whole numbers by unit fractions
- Dividing unit fractions by whole numbers
- Dividing whole numbers by fractions
- Dividing fractions by whole numbers
- Dividing fractions

(2) Perform operations on decimals

- Adding decimals
- Subtracting decimals
- Multiplying decimals
- Dividing decimals

(3) Applying arithmetic to generate and identify equivalent expressions

- Simplifying expressions, combining like terms
- Equivalent expressions using properties of operations
- Identifying equivalent linear expressions

(4) Understanding equations and inequalities, and solving one-step equations

- Solving one-step equations (addition and subtraction)
- Solving one-step equations (multiplication and division)
- Understanding inequalities



SCOPE AND SEQUENCE

GRADE 8

(1) Understand and analyze proportional relationships

- Equivalent ratios
- Identifying proportional relationships
- Proportional relationships as equations
- Graphs of proportional relationships
- Solving Proportions

(2) Understand and perform operations on rational numbers

- Understanding rational numbers
- Adding rational numbers
- Subtracting rational numbers
- Multiplying Rational Numbers
- Dividing Rational Numbers

(3) Solving equations and inequalities

- Expanding linear expressions
- Factoring linear expressions
- Solving two-step equations
- Solving linear equations
- Solving one-step inequalities (addition and subtraction)
- Solving one-step inequalities (multiplication and division)

(4) Solve problems involving angles

- Complementary, supplementary, and adjacent Angles
- Adjacent angles



NOTES

