

MATHEMATICS

Course Description



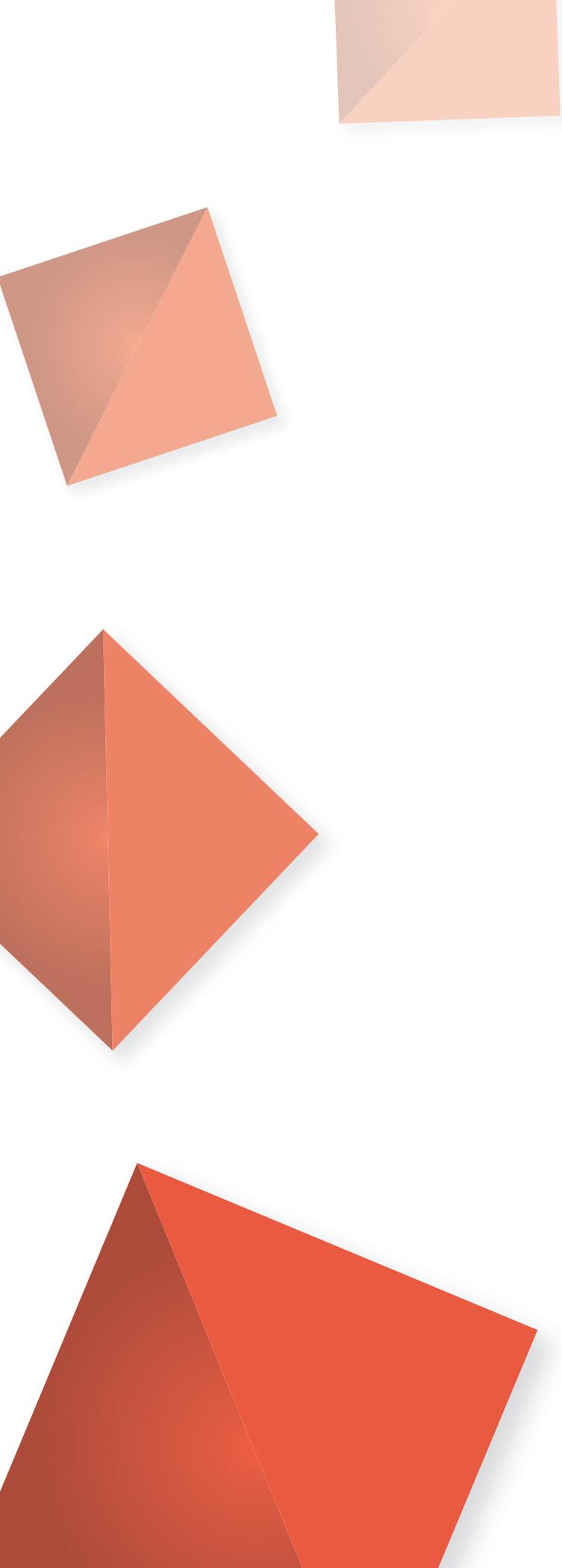


Table of contents

Series Description	2
General Objectives	3
Course Stucture	4
Unit Breakdown	8
Unit 1. Having Fun with Shapes, Sizes and Colors.	8
Unit 2. Having Fun with Others	11
Unit 3. Once Upon a Time.	13
Unit 4. Stories and Numbers	15
Unit 5. Measuring and Comparing at the Circus	18
Unit 6. Discovering Patterns and Figures at the Fair.	21
Unit 7. Let's Add and Subtract!	24
Unit 8. The Numbers From 21 to 50.	26
Unit 9. How Much Money Do You See?	28
Unit 10. Let's Measure Time!	32
Unit 11. Classifying, Organizing, Coloring, and Counting	37
Unit 12. Fractions and Greater Numbers.	40

Series Description

The objective of the EduSystem **Mathematics K-6** series is to help students develop skills and mathematical concepts in accordance with the standards set forth by the Department of Education of Puerto Rico and the National Council of Teachers of Mathematics. The purpose of the series is to create awareness of why studying mathematical processes is important and how it is necessary for solving problems that relate to real-life situations.

Through its content, strategies, and techniques, the EduSystem **Mathematics K-6** series instills a deep understanding of the concepts, skills, and techniques necessary for the subsequent study of higher mathematics and applications. The way in which the topics, examples, and recommended applications are presented allows students to visualize, understand, and value the usefulness of mathematics in everyday life.

The EduSystem **Mathematics K-6** series covers the following areas and topics: number sense, counting, and cardinal numbers; operations and algebraic thought; numbers and operations in base ten; numbers and operations with fractions and ratios; proportional relationships; numeral systems; expressions and equations; measurement and data; statistics and probability, and geometry.

In each lesson, the objectives have been carefully aligned by taking into consideration the concepts and skills students need in order to establish connections between the different topics. The instructional focus is based upon conceptual understanding, skills development, and mathematical problems/solutions. It also focuses on the development of critical thinking skills which is the integral means of foundation for the students.

The EduSystem **Mathematics K-6** series encourages the direct application of what students learn and how they visualize the importance of mathematics as a universal discipline relating to society, community, organizations and institutions. Furthermore, the incorporation of situations and real-life problems in each of the topics aims to awaken an interest in the study of mathematics for students.

Concept Development

The EduSystem **Mathematics K-6** series is directed toward developing a mastery of:

- ▶ Mathematical reasoning skills and their applications
- ▶ Application of problem solving processes and strategies
- ▶ Use of technology as tools to access, analyze, and apply information in the solution of problems in their immediate surroundings

General Objectives

The objectives of this Series are to:

- ▶ Help students develop an interest and appreciation for mathematics.
- ▶ Develop mathematical capability within students through experiences that stimulate their curiosity and focus it toward investigation, problem solving, and communication.
- ▶ Promote that students visualize mathematics as an integral whole and not as a group of isolated topics.
- ▶ Develop the problem solving processes in students, as a cornerstone of encouragement, furthering the development of mathematical capacity.
- ▶ Stimulate within students the need of using language and academic vocabulary to communicate mathematical ideas.
- ▶ Develop mathematical reasoning and critical thinking skills that allow students to visualize mathematics as a relevant discipline in their lives.
- ▶ Emphasize the concepts of numbers, operations, and calculations so that they are correctly defined, conceived, and adequately applied.
- ▶ Promote the learning of concepts in geometry and measurement through hands-on experiences that incorporate experimentation and discovery of mathematical relationships using solid objects or manipulatives.

Course Structure

The **Mathematics K** course is composed of twelve units. Each unit is composed of lessons. Each lesson contains a presentation divided into sections that develop their individual topics. Each lesson also contains a descriptive log, activities, worksheets, and handouts related to the content and, as in most cases, website links and resources. The practice and review documents generally include word problems, as well as a section devoted solely to solving problems.

We invite you to get to know the presentation sections and the documents that are generally found in the course lessons.

The units are made up of the following:

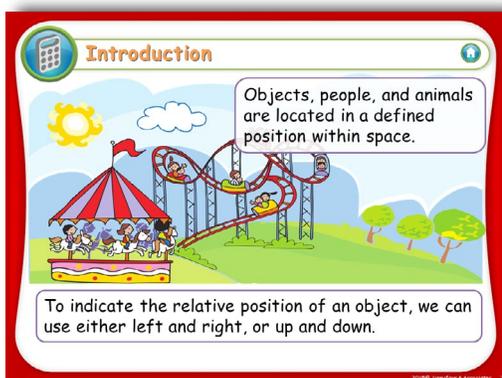
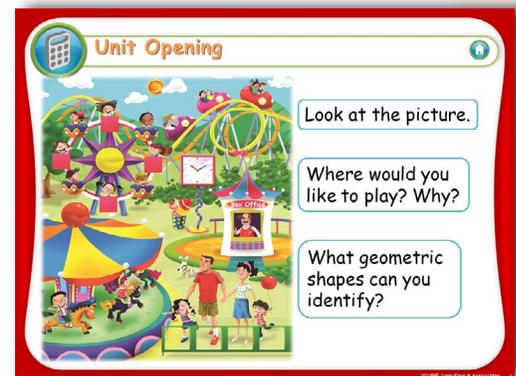
► Lessons

Each unit is composed of several lessons which are divided by topics. Furthermore, each lesson is comprised of the following:

► **Presentation** Each presentation is composed of the following sections:

Unit Opening

Each unit begins with an image which starts off the first lesson of the unit. This section presents the unit's theme as well as several questions in which the image or theme are explored.

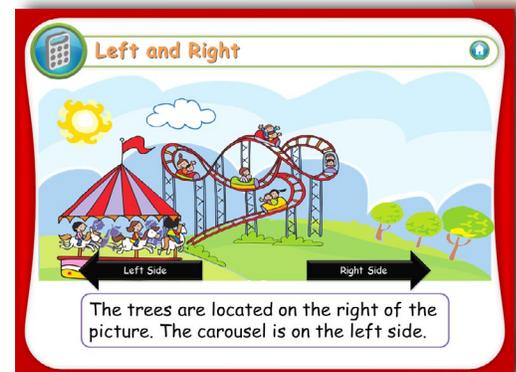


Introduction

Presentation of a situation and questions to be explored.

Topics to Be Developed

Sections of concept development, where mathematical ideas and concepts are explained. On some occasions, skills are developed from the situation presented in the introduction and other examples are offered.





Practice

Lesson closure in which students apply what they learned through some exercise.

Think about It

A reasoning question, is presented and identified with a lightbulb. The goal is to develop students' reasoning and analysis capacities.



Let's Solve Together

Exercises or activities that promote teamwork.

At Home

Activity for the application of skills learned in class.



► Handouts and Worksheets



Learning

It presents the mathematical concepts to be developed within the lesson.

Think and Practice

It presents exercises and problems after every concept development section. It has activities that help practice, enrich, and reinforce the concepts learned throughout the lesson.



► Lesson 0

This lesson is composed of a series of unit documents and of formative and cumulative evaluation that can be used before, during, or after the study of each unit.

Learning While Playing

It opens the lesson in a fun, enjoyable way. In this section tangrams are used as a strategy towards the development of mathematical concepts.



Problem Solving

It explains strategies and procedures for the development of problem solving skills.



Unit Review

Unit Review

Practice exercises that allow students to confirm what they have learned in the unit.

Reviewing the Units

Practice exercises that allow the student to confirm what they have learned in previous units.



Reviewing the Units



What I Learned

What I Learned

The skills and concepts learned in the unit are measured. It allows students to do a self-evaluation. The teacher may use it as a test.

Knowing Technology

It presents technology in its different manifestations, including the computer as well as all the gadgets present in our daily lives. It can be found in some units.



Knowing Technology



At Home

Work at Home

A unit document that allows students to work alongside parents and family on a project or activity related to the content learned in class.

Unit Breakdown

What follows is an itemization of the division of each unit in lessons, including the name of each lesson with its corresponding objectives, skills, and keywords.

Unit 1. Having Fun with Shapes, Sizes, and Colors

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0. Having Fun with Shapes, Sizes, and Colors

Code: C3I9G00U01L00

Unit Documents: I Learned, Problem Solving, Learning While Playing, and Unit Review

Lesson 1. Colors

Code: C3I9G00U01L01

Objectives

- ▶ Observe and describe an image.
- ▶ Compare objects by physical attribute.
- ▶ Color by following a color key.
- ▶ Identify colors to complete a drawing.

Skills

- ▶ observe
- ▶ classify
- ▶ identify
- ▶ color
- ▶ compare
- ▶ describe

Keywords

- ▶ blue
- ▶ color
- ▶ green
- ▶ orange

- ▶ indigo
- ▶ purple
- ▶ red
- ▶ yellow

Lesson 2. Sizes

Code: C3I9G00U01L02

Objectives

- ▶ Observe and describe an image.
- ▶ Compare objects by physical attribute.
- ▶ Associate objects by size.

Skills

- ▶ classify
- ▶ trace
- ▶ identify

Keywords

- ▶ big
- ▶ medium
- ▶ size
- ▶ small

Lesson 3. Shapes

Code: C3I9G00U01L03

Objectives

- ▶ Observe and describe an image.
- ▶ Compare objects by physical attributes.
- ▶ Identify colors and shapes to complete a drawing.
- ▶ Identify objects by their shape.
- ▶ Associate objects by their shape.
- ▶ Cut and glue objects according to their shape.

Skills

- ▶ identify
- ▶ trace

Keywords

- ▶ shape
- ▶ similar shapes

Unit 2. Having Fun with Others

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0. Having Fun with Others

Code: C319G00U02L00

Unit Documents: At Home, Knowing Technology, Problem Solving, Unit Review and What I Learned

Lesson 1. Grouping and Making Pairs

Code: C319G00U02L01

Objectives

- ▶ Group elements by their characteristics.
- ▶ Identify elements that either belong or not to a set.

Skills

- ▶ observe
- ▶ classify
- ▶ group
- ▶ make pairs
- ▶ trace
- ▶ associate

Keywords

- ▶ grouping
- ▶ pairs

Lesson 2. Correspondence

Code: C319G00U02L02

Objective

- ▶ Establish a biunique correspondence between given sets

Skills

- ▶ observe
- ▶ establish correspondence

- ▶ draw

Keywords

- ▶ biunique correspondence
- ▶ set

Lesson 3. The Elements of a Set

Code: C3I9G00U02L03

Objectives

- ▶ Identify elements that belong or not in a set.
- ▶ Recognize and create equal sets.
- ▶ Identify sets with the greatest amount of elements.
- ▶ Identify sets with the fewest amount of elements.
- ▶ Recognize an empty set.
- ▶ Compare different sets.

Skills

- ▶ observe
- ▶ classify
- ▶ identify the elements of a set
- ▶ count
- ▶ identify the amount of elements in a set
- ▶ establish correspondence
- ▶ trace
- ▶ identify an empty set
- ▶ draw
- ▶ make equal sets

Keywords

- ▶ empty set
- ▶ equal set
- ▶ greatest amount
- ▶ least amount
- ▶ set

Unit 3. Once Upon a Time

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0. Once Upon a Time

Code: C3I9G00U03L00

Unit Documents: Learning While Playing, Problem Solving, Unit Review and What I Learned

Lesson 1. Counting

Code: C3I9G00U03L01

Objective

- ▶ Count to five.

Skills

- ▶ observe
- ▶ count
- ▶ identify colors
- ▶ interpret information.
- ▶ establish the relation the quantity and the numeral.

Keywords

- ▶ count
- ▶ counting
- ▶ five
- ▶ four
- ▶ group
- ▶ numeral
- ▶ number
- ▶ one
- ▶ three
- ▶ two

Lesson 2. Numerals from 0 to 5

Code: C3I9G00U03L02

Objectives

- ▶ Match sets with numerals from 0 to 5.
- ▶ Associate an illustration with the numerals up to five.
- ▶ Make strokes of the numerals from 0 to 5.
- ▶ Recognize the numerals from 0 to 5.
- ▶ Read and write the numerals from 0 to 5.
- ▶ Represent sets with 0 to 5 elements.
- ▶ Select numerals from 0 to 5.

Skills

- ▶ count
- ▶ identify the numerals from 0 to 5
- ▶ trace or stroke
- ▶ interpret information
- ▶ Establish relationships between the amount and the numeral.h

Keywords

- ▶ numerals (one, two, three, four, five)
- ▶ set

Unit 4. Stories and Numbers

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0. Stories and Numbers

Code: C3I9G00U04L00

Unit Documents: At Home, Knowing Technology, Problem Solving, Unit Review and What I Learned

Lesson 1. Numerals from 6 to 12

Code: C3I9G00U04L01

Objectives

- ▶ Recognize the numerals from six to twelve.
- ▶ Trace the numerals of the numerals from six to twelve.
- ▶ Read and write the numerals from six to twelve.

Skills

- ▶ observe
- ▶ count
- ▶ identify numerals
- ▶ write

Keywords

- ▶ numerals (six, seven, eight, nine, ten, eleven, twelve)
- ▶ set

Lesson 2. Numerals from 13 to 20

Code: C3I9G00U04L02

Objectives

- ▶ Recognize the numerals from thirteen to twenty.
- ▶ Trace the numerals from thirteen to twenty.
- ▶ Read and write the numerals from thirteen to twenty.

Skills

- ▶ observe
- ▶ count

- ▶ identify numerals
- ▶ write

Keywords

- ▶ eighteen
- ▶ fifteen
- ▶ fourteen
- ▶ nineteen
- ▶ seventeen
- ▶ sixteen
- ▶ thirteen
- ▶ twenty

Lesson 3. Comparing Numbers and Amounts

Code: C3I9G00U04L03

Objectives

- ▶ Compare numbers and amounts.
- ▶ Choose numerals from zero to twenty.

Skills

- ▶ identify numerals
- ▶ compare numerals
- ▶ identify the least number

Keywords

- ▶ amount
- ▶ greatest
- ▶ least
- ▶ numbers

Lesson 4. Ordinal Numbers

Code: C3I9G00U04L04

Objective

- ▶ Identify the position of objects or people using ordinal numbers.

Skills

- ▶ identify ordinal numbers
- ▶ identify the first and last
- ▶ color

Keywords

- ▶ fifth
- ▶ first
- ▶ fourth
- ▶ second
- ▶ seventh
- ▶ sixth
- ▶ third

Unit 5. Measuring and Comparing at the Circus

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0. Measuring and Comparing at the Circus!

Code: C3I9G00U05L00

Unit Documents: Learning While Playing, Problem Solving, Unit Review and What I Learned

Lesson 1. Large, Medium, and Small

Code: C3I9G00U05L01

Objectives

- ▶ Identify the sizes large, medium, and small.
- ▶ Establish an order by size.

Skills

- ▶ observe
- ▶ identify an order by size
- ▶ compare
- ▶ establish a size order

Keywords

- ▶ large
- ▶ medium
- ▶ small

Lesson 2. Tall and Short

Code: C3I9G00U05L02

Objectives

- ▶ Identify tall objects.
- ▶ Identify short objects.

Skills

- ▶ observe
- ▶ identify height

- ▶ compare

Keywords

- ▶ short
- ▶ tall

Lesson 3. Wide and Narrow

Code: C3I9G00U05L03

Objectives

- ▶ Associate wide and narrow figures.
- ▶ Color objects for a given characteristic.

Skills

- ▶ trace
- ▶ identify width
- ▶ compare

Keywords

- ▶ narrow
- ▶ wide

Lesson 4. Long and Short

Code: C3I9G00U05L04

Objectives

- ▶ Draw long and short objects.
- ▶ Compare objects by size.

Skills

- ▶ compare lengths
- ▶ color

Keywords

- ▶ long
- ▶ short

Lesson 5. Arbitrary Units

Code: C3I9G00U05L05

Objectives

- ▶ Measure objects by using arbitrary units.
- ▶ Indicate the length of an object using different units of measure.

Skills

- ▶ observe
- ▶ compare and identify lengths
- ▶ count and write numbers

Keywords

- ▶ arbitrary units
- ▶ height
- ▶ length
- ▶ size
- ▶ width

Unit 6. Discovering Patterns and Figures at the Fair

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0. Discovering Patterns and Figures at the Fair

Code: C3I9G00U06L00

Unit Documents: At Home, Knowing Technology, Problem Solving, Unit Review and What I Learned

Lesson 1. The Position of Objects

Code: C3I9G00U06L01

Objectives

- ▶ Identify the left and right directional signs.
- ▶ Identify the position of objects.
- ▶ Color objects according to their position.

Skills

- ▶ observe
- ▶ determine left and right
- ▶ color

Keywords

- ▶ above
- ▶ below
- ▶ left
- ▶ right

Lesson 2. Patterns

Code: C3I9G00U06L02

Objective

- ▶ Identify and complete observed patterns.

Skills

- ▶ observe
- ▶ discover an continue a pattern

- ▶ color

Keywords

- ▶ pattern

Lesson 3. Three-Dimensional Figures

Code: C3I9G00U06L03

Objective

- ▶ Recognize and identify three-dimensional figures.

Skills

- ▶ observe
- ▶ identify three-dimensional shapes: the cube and the sphere
- ▶ identify colors
- ▶ identify the shapes of a pyramid, cylinder, and a prism

Keywords

- ▶ cube
- ▶ cylinder
- ▶ prism
- ▶ pyramid
- ▶ sphere

Lesson 4. Plane Figures

Code: C3I9G00U06L04

Objectives

- ▶ Identify two - dimensional shapes.

Skills

- ▶ observe
- ▶ identify squares and circles
- ▶ color
- ▶ trace
- ▶ identify the triangle and the rectangle

Keywords

- ▶ circle
- ▶ rectangle
- ▶ square
- ▶ triangle

Unit 7. Let's Add and Subtract!

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0. Let's Add and Subtract!

Code: C319G00U07L00

Unit Documents: Learning While Playing, Problem Solving, Unit Review and What I Learned

Lesson 1. Joining Sets

Code: C319G00U07L01

Objective

- ▶ Classify, count, and join sets.

Skills

- ▶ classify
- ▶ count
- ▶ join sets

Keywords

- ▶ sets

Lesson 2. Addition

Code: C319G00U07L02

Objectives

- ▶ Recognize the plus and equals signs.
- ▶ Use the plus and equals signs correctly.
- ▶ Solve addition operations.
- ▶ Observe and join sets of up to five elements.
- ▶ Write numerals.
- ▶ Complete numeric expressions with the plus and equals signs.

Skills

- ▶ identify the plus sign
- ▶ join sets
- ▶ write numerals

- ▶ use numeric expressions with the plus sign (+) and equals sign (=)

Keywords

- ▶ addition
- ▶ equal
- ▶ equal sign
- ▶ join sets
- ▶ operation
- ▶ total

Lesson 3. Subtraction

Code: C3I9G00U07L03

Objectives

- ▶ Solve subtraction operations.
- ▶ Recognize the minus sign.

Skills

- ▶ separate sets of five elements

Keywords

- ▶ eliminate
- ▶ subtract
- ▶ symbol

Lesson 4. Addition and Subtraction up to Ten

Code: C3I9G00U07L04

Objective

- ▶ Solve operations of addition and subtraction.

Skills

- ▶ add
- ▶ subtract
- ▶ observe

Keywords

- ▶ add
- ▶ subtract

Unit 8. The Numbers from 21 to 50

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0. The Numbers from 21 to 50

Code: C319G00U08L00

Unit Documents: Problem Solving, Reviewing Units, Unit Review, and What I Learned

Lesson 1. Numerals from 21 to 30

Code: C319G00U08L01

Objectives

- ▶ Recognize the numerals from 21 to 30.
- ▶ Write the numbers from 21 to 30 in order.
- ▶ Count to 30.
- ▶ Identify missing numbers in a given order.
- ▶ Complete the numeric sequences.

Skills

- ▶ count
- ▶ associate a set with its number
- ▶ write the numeral

Keywords

- ▶ numbers
- ▶ order
- ▶ sequence

Lesson 2. Numerals from 31 to 40

Code: C319G00U08L02

Objectives

- ▶ Recognize the numerals from 31 to 40.
- ▶ Write the numerals from 31 to 40 in order.
- ▶ Count to 40.
- ▶ Identify missing numerals in a given order.
- ▶ Complete the numeric sequences.

Skills

- ▶ count
- ▶ associate a set with its numeral
- ▶ write the numeral

Keywords

- ▶ numeral
- ▶ order
- ▶ sequence

Lesson 3. Numerals from 41 to 50

Code: C3I9G00U08L03

Objectives

- ▶ Recognize the numerals from 41 to 50.
- ▶ Write the numerals from 41 to 50 in order.
- ▶ Count to 50.
- ▶ Identify missing numerals in a given order.
- ▶ Complete the numeric sequences.

Skills

- ▶ count
- ▶ associate a set with its numeral
- ▶ write the numeral

Keywords

- ▶ numeral
- ▶ order
- ▶ sequence

Unit 9. How Much Money Do You See?

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0. How Much Money Do You See?

Code: C319G00U09L00

Unit Documents: Learning While Playing, Problem Solving and What I Learned

Lesson 1. Pennies

Code: C319G00U09L01

Objectives

- ▶ Recognize the names of the coins.
- ▶ Recognize the amount of 1¢.
- ▶ Identify the penny as the 1 ¢ coin.

Skills

- ▶ observe
- ▶ identify

Keywords

- ▶ money
- ▶ penny

Lesson 2. Nickels

Code: C319G00U09L02

Objectives

- ▶ Recognize the names of the coins.
- ▶ Recognize the amount of 5¢.
- ▶ Identify the nickel as the 5¢ coin.

Skills

- ▶ observe
- ▶ identify
- ▶ color

Keywords

- ▶ money

- ▶ nickel
- ▶ penny

Lesson 3. Dimes

Code: C3I9G00U09L03

Objectives

- ▶ Recognize the names of the coins.
- ▶ Recognize the amount of 10¢.
- ▶ Identify the dime as the 10¢ coin.

Skills

- ▶ observe
- ▶ identify
- ▶ write

Keywords

- ▶ dime
- ▶ money
- ▶ penny

Lesson 4. Quarters

Code: C3I9G00U09L04

Objectives

- ▶ Recognize the names of the coins.
- ▶ Recognize the amount of 25¢.
- ▶ Identify the quarter as the 25¢ coin.

Skills

- ▶ observe
- ▶ identify
- ▶ write

Keywords

- ▶ dime
- ▶ money
- ▶ penny
- ▶ quarter

Lesson 5. The Dollar

Code: C3I9G00U09L05

Objective

- ▶ Identify the dollar.

Skills

- ▶ observe
- ▶ identify

Keywords

- ▶ coin
- ▶ dollar

Lesson 6. Equivalence between 1¢ and 5¢

Code: C3I9G00U09L06

Objectives

- ▶ Establish equivalence among coins.
- ▶ Distinguish between coins and dollars.

Skills

- ▶ cont
- ▶ identify
- ▶ read

Keywords

- ▶ coin
- ▶ equivalence
- ▶ money

Lesson 7. Counting Money

Code: C3I9G00U09L07

Objective

- ▶ Count coins.

Skills

- ▶ identify

▶ count

▶ write

Keywords

▶ coins

▶ count

▶ money

Lesson 8. Adding the Value of Coins

Code: C3I9G00U09L08

Objective

▶ Add coins.

Skills

▶ identify

▶ count

▶ write

Keywords

▶ add

▶ coins

▶ count

Unit 10. Let's Measure Time!

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0. Let's Measure Time!

Code: C319G00U10L00

Unit Documents: At Home, Knowing Technology, Problem Solving, Unit Review and What I Learned

Lesson 1. Sequence of Events

Code: C319G00U10L01

Objective

- ▶ Place events in order.

Skills

- ▶ observe
- ▶ write

Keywords

- ▶ events
- ▶ order
- ▶ organization
- ▶ sequence

Lesson 2. Estimating Time

Code: C319G00U10L02

Objectives

- ▶ Distinguish between activities that take more and less time.
- ▶ Select activities that take more or less time.
- ▶ Classify activities by their duration.

Skills

- ▶ observe
- ▶ estimate
- ▶ write

Keywords

- ▶ estimate
- ▶ less
- ▶ more
- ▶ time

Lesson 3. Days of the Week

Code: C319G00U10L03

Objective

- ▶ Recognize the names and order of the days of the week.

Skills

- ▶ observe
- ▶ read
- ▶ color

Keywords

- ▶ day
- ▶ Friday
- ▶ Monday
- ▶ Saturday
- ▶ Sunday
- ▶ Thursday
- ▶ Tuesday
- ▶ Wednesday
- ▶ week

Lesson 4. The Months of the Year

Code: C319G00U10L04

Objective

- ▶ Recognize the numbers and order of the months of the year.

Skills

- ▶ observe
- ▶ count
- ▶ write

Keywords

- ▶ April
- ▶ August
- ▶ December
- ▶ February
- ▶ January
- ▶ July
- ▶ June
- ▶ March
- ▶ May
- ▶ November
- ▶ October
- ▶ September
- ▶ year

Lesson 5. The Calendar

Code: C3I9G00UI0L05

Objective

- ▶ Identify the parts of a calendar.

Skills

- ▶ observe
- ▶ identify
- ▶ count
- ▶ color
- ▶ write

Keywords

- ▶ calendar
- ▶ days
- ▶ months
- ▶ week

Lesson 6. The Hour

Code: C319G00U10L06

Objectives

- ▶ Identify the parts of a clock.
- ▶ Identify and write the hour.

Skills

- ▶ write
- ▶ identify

Keywords

- ▶ clock
- ▶ hour
- ▶ hand
- ▶ minute hand
- ▶ sphere

Lesson 7. Half an Hour

Code: C319G00U10L07

Objectives

- ▶ Identify the parts of a clock.
- ▶ Identify the half an hour.
- ▶ Write the half an hour.

Skills

- ▶ Identify the hour and the half an hour.

Keywords

- ▶ clock
- ▶ hour
- ▶ hour hand
- ▶ minutes
- ▶ minutes hand
- ▶ time

Unit 1.1. Classifying, Organizing, Coloring, and Counting

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0. Classifying, Organizing, Coloring, and Counting

Code: C319G00UI1L00

Unit Documents: Learning While Playing, Problem Solving and What I Learned

Lesson 1. Gathering Data

Code: C319G00UI1L01

Objectives

- ▶ Classify and group by color.
- ▶ Classify and group by shape.
- ▶ Classify and organize by other properties.

Skills

- ▶ observe
- ▶ count
- ▶ write

Keywords

- ▶ color
- ▶ data
- ▶ shape
- ▶ size

Lesson 2. Pictographs

Code: C319G00UI1L02

Objectives

- ▶ Build graphs to organize data.
- ▶ Recognize the utility of a graph.
- ▶ Gather and organize data in a graph.
- ▶ Read and interpret pictographs.

Skills

- ▶ observe
- ▶ count
- ▶ color

Keywords

- ▶ graph
- ▶ pictograph

Lesson 3. Bar Graphs

Code: C3I9G00UIIL03

Objectives

- ▶ Build graphs to write and order data.
- ▶ Read, interpret and analyze bar graphs.
- ▶ Recognize the utility of graphs to communicate information.

Skills

- ▶ read
- ▶ count
- ▶ color

Keywords

- ▶ bar
- ▶ data
- ▶ graph

Lesson 4. Building Graphs

Code: C3I9G00UIIL04

Objectives

- ▶ Build graphs to write and organize data.
- ▶ Read and interpret graphs.
- ▶ Recognize the utility of graphs to communicate information.
- ▶ Gather and organize data in a graph.

Skills

- ▶ read
- ▶ count
- ▶ color

Keywords

- ▶ bar
- ▶ data
- ▶ graph
- ▶ pictograph

Unit 12: Fractions and Greater Numbers

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0. Fractions and Greater Numbers

Code: C319G00UI2L00

Unit Documents: At Home, Knowing Technology, Problem Solving, Unit Review, Review of Units and What I Learned

Lesson 1. Fractions

Code: C319G00UI2L01

Objective

- ▶ Recognize the parts of a group.

Skills

- ▶ observe
- ▶ identify

Keywords

- ▶ fraction
- ▶ numerator
- ▶ denominator

Lesson 2. A Whole and a Half

Code: C319G00UI2L02

Objective

- ▶ Recognize the concepts whole and a half.

Skills

- ▶ observe
- ▶ trace
- ▶ identify
- ▶ color

Keywords

- ▶ whole
- ▶ half

- ▶ fraction

Lesson 3. Parts of a Whole

Code: C3I9G00UI2L03

Objective

- ▶ Identify parts of a whole.

Skills

- ▶ observe
- ▶ count
- ▶ write

Keywords

- ▶ half
- ▶ fraction
- ▶ integer
- ▶ part
- ▶ whole

Lesson 4. Equal Parts in a Whole

Code: C3I9G00UI2L04

Objective

- ▶ Recognize the parts of a group.

Skills

- ▶ observe
- ▶ count

Keywords

- ▶ amount
- ▶ equal parts
- ▶ portion
- ▶ whole

Lesson 5. Numerals from 51 to 70

Code: C3I9G00U12L05

Objective

- ▶ Recognize the numerals from fifty-one to seventy.

Skills

- ▶ observe
- ▶ identify
- ▶ count
- ▶ write

Keywords

- ▶ numbers

Lesson 6. Numerals from 71 to 90

Code: C3I9G00U12L06

Objective

- ▶ Recognize the numerals from seventy-one to ninety.

Skills

- ▶ observe
- ▶ identify
- ▶ count
- ▶ write

Keywords

- ▶ numerals

Lesson 7. Numerals from 91 to 100

Code: C3I9G00U12L07

Objective

- ▶ Recognize the numerals from ninety-nine to one hundred.

Skills

- ▶ observe
- ▶ identify
- ▶ count
- ▶ write

Keywords

- ▶ numerals





