MATHEMATICS

Course Description

3

Table of Contents

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 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 on investigation, problem solving, and communication.

▶ Promote that the 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 3 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

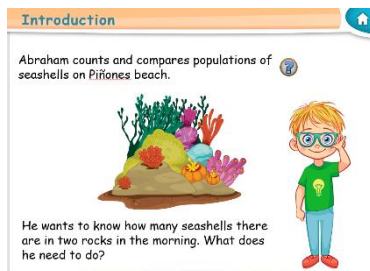Each presentation is composed of the following sections:

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.
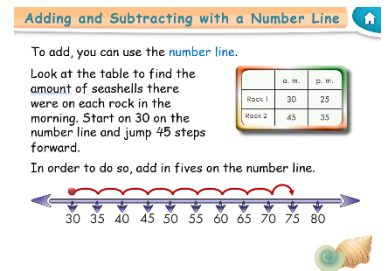
Introduction

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.
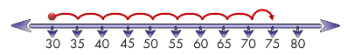
Practice

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.

Handouts and Worksheets

Think and Practice

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

Homework

Practice for each concept building section. Students are provided with a reasonable number of exercises so that they can master the skills and concepts studied in 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.

What I Know!

A pretest of the concepts and skills to be discussed within the unit.

Connection

Activity that initiates the unit. It relates Mathematics with other fields of study.

Problem Solving

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

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.

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.

Think

It presents activities and includes mathematical reasoning exercises. It can be found in some units.

Unit Breakdown

Below 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. Number Sense

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

Lesson 0: **Number Sense**
   Code: C319G03U01L00
Unit Documents: Learning While Playing, Problem Solving, Unit Review I & II and What I Learned

Lesson 1: **Place Value of a Number up to the Hundred–Thousands**
   Code: C319G03U01L01
Objectives
- ▶ Recognize place value of up to six–digit numbers.
- ▶ Identify the value of a digit according to the position it occupies in a number.

Keywords
- ▶ hundred-thousands, numeric patterns, ones, place value, position value, ten-thousands, thousands

Lesson 2: **Expanded Form**
   Code: C319G03U01L02
Objectives
- ▶ Identify the position of each digit in a number.
- ▶ Write the number in expanded form.
- ▶ Write a number the way it is read.

Keywords
- ▶ expanded form, numeric patterns, units.

Lesson 3: **Ordering and Comparing Numbers**
   Code: C319G03U01L03
Objectives
- ▶ Compare numbers.
- ▶ Order numbers.

Keywords
- ▶ compare, compare numbers, order, order numbers.

Lesson 4: **Rounding to the Nearest Ten, Hundred, and Thousand**

Code: C319G03U01L04

Objectives

▶ Round to the nearest ten.
▶ Round to the nearest hundred.
▶ Round to the nearest thousand.

Keywords

▶ hundreds, round hundreds, round tens, rounding, tens.

Unit 2: Adding and Subtracting

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

Lesson 0: **Adding and Subtracting**
Code: C319G03U02L00

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

Lesson 1: **Adding and Subtracting**
Code: C319G03U02L01
Objectives
▶ Add and subtract numbers.
Keywords
▶ add, add three or more addends, subtract.

Lesson 2: **Adding and Subtracting with a Number Line**
Code: C319G03U02L02
Objectives
▶ Add and subtract with a number line.
Keywords
▶ addends, addition, number line, subtraction.

Lesson 3: **Adding Three and Four Addends**
Code: C319G03U02L03
Objectives
▶ Add three and four addends.
Keywords
▶ add, adding three or more addends, addends.

Lesson 4: **Verifying a Subtraction by Adding**
Code: C319G03U02L04
Objectives
▶ Verify the subtraction with the addition.
Keywords
▶ addition, difference, minuend, subtraction, subtrahend, verifying a subtraction with addition.

Lesson 5:   **Numerical Patterns**
  Code: C319G03U02L05
  Objectives
  ▶ Complete patterns.
  ▶ Recognize the repeating element in a pattern.
  Keywords
  ▶ patterns, numerical patterns.

Lesson 6:   **The properties of the sum**
  Code: C319G03U02L06
  Objectives
  ▶ Apply the commutative property of addition.
  ▶ Apply the associative property of addition.
  ▶ Apply the addition identity property.
  Keywords
  ▶ associative property, commutative property, identify property.

Lesson 7:   **Adding and Subtracting Money**
  Code: C319G03U02L07
  Objectives
  ▶ Add money.
  ▶ Subtract money.
  Keywords
  ▶ add money, subtract money.

Unit 3: Adding Five-Digit Numbers

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

Lesson 0: **Adding Five-Digit Numbers**
  Code: C319G03U03L00

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

Lesson 1: **Adding Two-Digit Numbers**
  Code: C319G03U03L01
  Objectives
  ▶ Add two-digit numbers with and without regrouping.
  Keywords
  ▶ addend, adding, adding two-digit numbers, digit, regrouping, sum or total.

Lesson 2: **Other Ways of Adding**
  Code: C319G03U03L02
  Objectives
  ▶ Add two-digit numbers by decomposing one of the numbers into tens and ones.
  Keywords
  ▶ addend, adding, adding two-digit numbers, decomposing, digit, ones, properties of addition, sum or total, tens.

Lesson 3: **Adding More Than Two Numbers**
  Code: C319G03U03L03
  Objectives
  ▶ Adding three or more two-digit numbers without regrouping.
  Keywords
  ▶ adding three or more addends, tens, units.

Lesson 4: **Adding Three, Four and Five-Digit Numbers**
  Code: C319G03U03L04
  Objectives
  ▶ Add three-digit and two-digit numbers with regrouping.
  Keywords
  ▶ adding three-digit numbers, adding four-digit numbers.

Lesson 5:   **Adding Up to Four Numbers by Regrouping**

   Code: C319G03U03L05

  Objectives

      ▶   Add three-digit and four-digit numbers with regrouping.

  Keywords

      ▶   addition with regrouping, addition without regrouping .

Lesson 6:   **Estimating Sums**

   Code: C319G03U03L06

  Objectives

      ▶   Estimate sums by rounding to the nearest ten.

  Keywords

      ▶   estimate, rounding, sum, tens.

Unit 4: Subtracting Five- Digits Numbers

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

Lesson 0:   **Subtracting Five- Digits Numbers**
  Code: C319G03U04L00

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

Lesson 1:   **Subtracting Two-Digit Numbers**
  Code: C319G03U04L01

  Objectives

  ▶ Subtract two-digit numbers with and without regrouping.

  Keywords

  ▶ digit, regrouping, regrouping in subtraction, subtracting two-digit numbers.

Lesson 2:   **Subtracting Three, Four and Five-Digit Numbers**
  Code: C319G03U04L02

  Objectives

  ▶ Subtract three, four, and five-digit numbers with and without regrouping.

  Keywords

  ▶ digit, regrouping, subtracting three, four, and five-digit numbers.

Lesson 3:   **Subtracting with Zeroes**
  Code: C319G03U04L03

  Objectives

  ▶ Subtract numbers with zeroes in the minuend and subtrahend.

  Keywords

  ▶ digit, minuend, regrouping, subtracting zeroes, subtrahend.

Lesson 4:   **Estimating Differences**
  Code: C319G03U04L04

  Objectives

  ▶ Estimate differences.
  ▶ Solve subtraction problems by estimating.

  Keywords

  ▶ digit, estimate, hundred, ten, regrouping, estimating differences.

Lesson 5:   **Subtracting Money**
  Code: C319G03U04L05
    Objectives
- ▶ Subtract money.
- ▶ Solve subtraction problems with money.

    Keywords
- ▶ digit, regrouping.

Lesson 6:   **Subtracting Four and Five-Digit Numbers**
  Code: C319G03U04L06
    Objectives
- ▶ Subtract four-digit numbers with and without regrouping.

    Keywords
- ▶ digit, regrouping.

Lesson 7:   **Subtracting Equal Numbers and Zero**
  Code: C319G03U04L07
    Objectives
- ▶ Subtract three, four, and five-digit numbers with and without regrouping.

    Keywords
- ▶ digit, regrouping.

Unit 5: Multiplication

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

Lesson 0:   **Multiplication**
  Code: C319G03U05L00

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

Lesson 1:   **Multiplication**
  Code: C319G03U05L01

  Objectives

  ▶ Observe sets to multiply.
  ▶ Add to multiply.
  ▶ Count sets and their elements.
  ▶ Multiply whole numbers.

  Keywords

  ▶ elements, multiplication, sets.

Lesson 2:   **Multiplying Factors of a Digit**
  Code: C319G03U05L02

  Objectives

  ▶ Count sets and their elements to multiply.
  ▶ Multiply factors.
  ▶ Establish relations.
  ▶ Use multiplication strategies.

  Keywords

  ▶ digit, factor, product.

Lesson 3:   **Multiplying by Factors 2, 3, 4, and 5**
  Code: C319G03U05L03

  Objectives

  ▶ Add to multiply.
  ▶ Multiply by the factors 2, 3, 4, and 5.

  Keywords

  ▶ factor, product, repeated additions.

Lesson 4: **Multiplying by Factors 6, 7, 8, and 9**

  Code: C319G03U05L04

  Objectives

  ▶ Observe sets for multiplying.

  ▶ Add to multiply.

  ▶ Multiply by factors 6, 7, 8, and 9.

  Keywords

  ▶ factor, product.

Lesson 5: **Commutative and Associative Properties**

  Code: C319G03U05L05

  Objectives

  ▶ Multiply whole numbers.

  ▶ Apply the Commutative Property of Multiplication.

  ▶ Apply the Associative Property of Multiplication.

  Keywords

  ▶ Associative Property, Commutative Property.

Lesson 6: **Multiplying One and Two Digits**

  Code: C319G03U05L06

  Objectives

  ▶ Observe sets.

  ▶ Establish relations.

  ▶ Multiply two-digit numbers by one-digit numbers.

  ▶ Regroup to find a product.

  ▶ Solve multiplication problems.

  Keywords

  ▶ ones, product, regroup, tens.

Lesson 7: **Patterns**

  Code: C319G03U05L07

  Objectives

  ▶ Identifies number and geometric patterns.

  ▶ Extends number and geometric patterns.

  ▶ Identifies the rule in a number pattern.

  Keywords

  ▶ geometric pattern, number pattern.

Unit 6: Division

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

Lesson 0: **Division**
   Code: C319G03U06L00
   Unit Documents: Learning While Playing, Problem Solving, Unit Review I & II and What I Learned

Lesson 1: **Division**
   Code: C319G03U06L01
   Objectives
   ▶ Apply the division operation.
   Keywords
   ▶ dividend, division, divisor, fact families, quotient.

Lesson 2: **Dividing by 2, 3, 4, and 5**
   Code: C319G03U06L02
   Objectives
   ▶ Divide by 2, 3, 4, and 5.
   Keywords
   ▶ dividend, division, divisor, quotient.

Lesson 3: **Dividing by 6, 7, 8, and 9**
   Code: C319G03U06L03
   Objectives
   ▶ Divide by 6, 7, 8, and 9.
   Keywords
   ▶ dividend, division, divisor, quotient.

Lesson 4: **Dividing by 0 and 1**
   Code: C319G03U06L04
   Objectives
   ▶ Divide with 0 and 1.
   Keywords
   ▶ dividend, division, divisor, quotient.

Lesson 5: **Fact Families of Multiplication and Division**

   Code: C319G03U06L05

Objectives

- ▶ Relate the multiplication with the division.
- ▶ Identifies the unknown value in an equation.
- ▶ Solve one-step equations.
- ▶ Find the value of a variable.

Keywords

- ▶ dividend, division, divisor, fact families, quotient, equations, variables.

Unit 7: More Multiplication and Division

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

Lesson 0: **More Multiplication and Division**
Code: C319G03U07L00

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

Lesson 1: **Multiplying Tens and Ones**
Code: C319G03U07L01

Objectives
▶ Multiply by two-digit numbers.

Keywords
▶ tens, multiplication, units.

Lesson 2: **Regrouping when Multiplying.**
Code: C319G03U07L02

Objectives
▶ Regroup ones and tens while multiplying.

Keywords
▶ multiplication, regroup.

Lesson 3: **Multiplying Tens and Hundreds by Regrouping**
Code: C319G03U07L03

Objectives
▶ Regroup tens and hundreds when multiplying.

Keywords
▶ hundreds, multiplication, regroup, tens.

Lesson 4: **Multiplying Hundreds**
Code: C319G03U07L04

Objectives
▶ • Multiply by three-digit numbers.

Keywords
▶ hundreds, multiplication, regroup.

Lesson 5: **Estimating Products**

   Code: C319G03U07L05

    Objectives

       ▶ Estimate products.

    Keywords

       ▶ estimation, corroboration.

Lesson 6: **Dividing Tens**

   Code: C319G03U07L06

    Objectives

       ▶ Divide tens.

    Keywords

       ▶ division, tens.

Lesson 7: **Dividing and Regrouping**

   Code: C319G03U07L07

    Objectives

       ▶ Divide with remainders.

    Keywords

       ▶ division, remainder.

Lesson 8: **Dividing Hundreds**

   Code: C319G03U07L08

    Objectives

       ▶ Divide hundreds.

    Keywords

       ▶ division, tens.

Unit 8: Geometry

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

Lesson 0: **Geometry**
   Code: C319G03U08L00

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

Lesson 1: **Two and Three-dimensional Shapes**
   Code: C319G03U08L01

Objectives
- ▶ Identify solid and plane figures.
- ▶ Name solid and plane figures.

Keywords
- ▶ cylinder, circle, cone, square, cube, sphere, solid figures, plane figures, pyramid, prism, rectangle, triangle.

Lesson 2: **Vertexes, Faces, and Edges**
   Code: C319G03U08L02

Objectives
- ▶ Identify the vertexes, faces, and edges of a figure.

Keywords
- ▶ base, curved surface, edge, flat face, side, vertices.

Lesson 3: **Points, Lines, Segments, and Rays**
   Code: C319G03U08L03

Objectives
- ▶ Identify points, lines, segments, and rays.

Keywords
- ▶ lines, points, rays, segments.

Lesson 4: **Angles**

   Code: C319G03U08L04

  Objectives

> ▶ Identify angles.
> ▶ Name angles.

  Keywords

> ▶ acute, angle, obtuse, right.

Lesson 5: **Symmetric Figures**

   Code: C319G03U08L05

  Objectives

> ▶ Identify symmetric figures.

  Keywords

> ▶ line of symmetry, symmetry.

Lesson 6: **Congruent Figures**

   Code: C319G03U08L06

  Objectives

> ▶ • Identify congruent figures.

  Keywords

> ▶ congruent.

Lesson 7: **Similar Figures**

   Code: C319G03U08L07

  Objectives

> ▶ Identify similar figures.

  Keywords

> ▶ similarity.

Lesson 8:   **Points in a Plane**

  Code: C319G03U08L08

  Objectives

▶ Identify points in a plane.

  Keywords

▶ collinear, coplanar, flat, straight.

Lesson 9:   **Parallel, Transversal, and Perpendicular Lines**

  Code: C319G03U08L09

  Objectives

▶ Identify different types of lines.

  Keywords

▶ parallel lines, perpendicular lines, transversal lines.

Unit 9: Measuring

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

Lesson 0: **Measuring**
Code: C319G03U09L00

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

Lesson 1: **Centimeters and Decimeters**
Code: C319G03U09L01

Objectives

▶ Find the length of an object in centimeters and decimeters.

Keywords

▶ centimeter, decimeter.

Lesson 2: **Meters and Kilometers**
Code: C319G03U09L02

Objectives

▶ Recognize the meter and kilometer as units of length in the metric system.
▶ Make conversions within the metric system.

Keywords

▶ centimeter, decimeter, kilometer, meter.

Lesson 3: **Estimating and Measuring Inches**
Code: C319G03U09L03

Objectives

▶ Find the length of an object in inches and half inches.

Keywords

▶ inches.

Lesson 4: **Feet, Yards, and Miles**
Code: C319G03U09L04

Objectives

▶ Recognize the yard, the foot, and the mile as units of length in the English system.

Keywords

▶ feet, length, mile, yard.

Lesson 5:   **Perimeter**
  Code: C319G03U09L05
   Objectives

▶ Find the perimeter of an object.

   Keywords

▶ perimeter.

Lesson 6:   **Area**
  Code: C319G03U09L06
   Objectives

▶ Find the area of a surface.

   Keywords

▶ area, unit.

Lesson 7:   **Liters**
  Code: C319G03U09L07
   Objectives

▶ Recognize the liter as a unit to measure capacity of the metrical system.

   Keywords

▶ liter, metrical system.

Lesson 8:   **Cups, Pints, Quarts, and Gallons**
  Code: C319G03U09L08
   Objectives

▶ Recognize the cup, pint, quart, and the gallon capacity as units of the English system.

   Keywords

▶ capacity, cup, gallon, pint, quart.

Lesson 9:   **Grams and Kilograms**
  Code: C319G03U09L09
   Objectives

▶ Recognize the gram and kilogram as mass units of the metric system.

   Keywords

▶ gram, kilogram, mass.

Lesson 10: **Pounds and Ounces**
Code: C319G03U09L10

Objectives

▶ Recognize the pound and ounce as units of mass (weight) in the English system.

Keywords

▶ mass, ounce, pound, weight.

Unit 10: Time

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

Lesson 0: **Time**

   Code: C319G03U10L00

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

Lesson 1: **Hour, Half an Hour, and Quarter of an Hour**

   Code: C319G03U10L01

  Objectives

▶ Identify the hour, half an hour, and a quarter of an hour.
▶ Write the hour, half an hour, and a quarter of an hour.

  Keywords

▶ hour, half hour, digital clock, analog clock.

Lesson 2: **The Hours and the Minutes**

   Code: C319G03U10L02

  Objectives

▶ Write the hour.
▶ Read a digital clock.
▶ Recognize the parts of a clock.

  Keywords

▶ a.m. and p.m., hour, hours and minutes, minutes, the clock.

Lesson 3: **Elapsed Time**

   Code: C319G03U10L03

  Objectives

▶ Recognize the units to measure time.
▶ Estimate time.
▶ Establish time relations.

  Keywords

▶ a.m. and p.m., elapsed time.

Lesson 4:   The Calendar

Code: C319G03U10L04

Objectives

▶ Recognize the calendar.

▶ Determine elapsed time using a calendar.

▶ Observe dates in a calendar.

▶ Use the calendar to order, organize, and analyze.

Keywords

▶ calendar, day, month, week, year.

Unit 11: Statistics

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

Lesson 0:   Statistics
  Code: C319G03U11L00

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

Lesson 1:   Gathering, Organizing, and Presenting Data
  Code: C319G03U11L01

  Objectives

  ▶ Gather and register data correctly.
  ▶ Organize data.
  ▶ Prepare a data table.
  ▶ Use the data in a table.

  Keywords

  ▶ data, organize, table.

Lesson 2:   Pictographs
  Code: C319G03U11L02

  Objectives

  ▶ Make a pictograph.

  Keywords

  ▶ pictographs.

Lesson 3:   Bar Graphs
  Code: C319G03U11L03

  Objectives

  ▶ Recognize, read, and build a bar graph.

  Keywords

  ▶ bar graphs, horizontal, vertical.

Lesson 4:   Line Graphs
  Code: C319G03U11L04

  Objectives

  ▶ Recognize, read, and build a line graph.

  Keywords

  ▶ line graph, bar charts, horizontal, vertical.

Lesson 5:   **Mode**
  Code: C319G03U11L05

   Objectives

- ▶ Find the mode in a set of data.

   Keywords

- ▶ mode, probability.

Lesson 6:   **Certain, Probable, and Impossible**
  Code: C319G03U11L06

   Objectives

- ▶ Identify probable and unlikely events.
- ▶ Identify certain and impossible events.

   Keywords

- ▶ impossible, probable, or unlikely events, certain events.

Lesson 7:   **Simple Probability Experiments**
  Code: C319G03U11L07

   Objectives

- ▶ Define the word probability.
- ▶ Make experiments to know the probability of an event.

   Keywords

- ▶ experiment of probability, sample space.

Lesson 8:   **Probability That an Event Will Occur**
  Code: C319G03U11L08

   Objectives

- ▶ Define the word probability.
- ▶ Make experiments to know the probability of an event.

   Keywords

- ▶ experiment of probability, sample space.

Lesson 9:   **Locating Points in a Coordinate Plane**
  Code: C319G03U11L09

   Objectives

- ▶ Recognize and use the coordinate system.
- ▶ Locate points in a coordinate plane.

   Keywords

- ▶ coordinate system.

Unit 12: Fractions

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

Lesson 0: **Fractions**
    Code: C319G03U12L00

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

Lesson 1: **Parts of a Whole**
    Code: C319G03U12L01

Objectives

▶ Express the parts of a whole as a fraction.
▶ Read and write fractions correctly.

Keywords

▶ fractions, parts of a whole.

Lesson 2: **Parts of a Group**
    Code: C319G03U12L02

Objectives

▶ Express the parts of a whole as a fraction.
▶ Read and write fractions correctly.

Keywords

▶ denominator, fractions, numerator, parts of a group.

Lesson 3: **Comparing Fractions**
    Code: C319G03U12L03

Objectives

▶ Compare fractions.
▶ Read and write fractions correctly.

Keywords

▶ comparing, denominator, fractions, numerator.

Lesson 4: **Ordering Fractions**
    Code: C319G03U12L04

Objectives

▶ Place fractions in order.
▶ Compare fractions.

Keywords

▶ comparing, fractions, order.

Lesson 5:   **Equivalent Fractions**

   Code: C319G03U12L05

   Objectives

   ▶ Identify equivalent fractions.
   ▶ Read and write equivalent fractions.

   Keywords

   ▶ equivalent fractions.

Lesson 6:   **Adding Like Fractions**

   Code: C319G03U12L06

   Objectives

   ▶ Add like fractions.

   Keywords

   ▶ like fractions.