## PACE ACADEMY MATHEMATICS 5 CURRICULUM GUIDE SY 2020-2021

Most Essential Learning Competencies	Math Lessons
First Quarter	
	Lesson 1.1: Addition and Subtraction of
Learn how to perform and solve word	Whole Numbers
problems the basic operations in	Lesson 1.2: Multiplication and Division of
Mathematics involving large numbers.	Whole Numbers
Understand and explain the rules for the	
Order of Operations, including explaining	Lesson 1.3: Order of Operations
the acronym, PEMDAS	
Understand the term average, what it	
represents, and how to calculate it.	Lesson 1.4: Average
Evaluate expressions containing exponent	Lesson 1.5: Powers and Exponent
Understand the difference between	
factors and multiples.	Lesson 1.6: Multiples and Factors
Learn how to find factors and multiples of	
a number.	
Determine in a fast rate if a number is	Lesson 1.7: Divisibility Rules
divisible by 2,3,4,5,12.	
Identify prime and composite numbers	Lesson 1.8: Prime Factorization of a Number.
Find the prime factors of a number.	
Find the Greatest Common Factor and	Lesson 1.9: Greatest Common Factor
Least Common Multiple of a Number	Lesson 1.10: Least Common Multiple
using different methods	Lossett 1.10. Loast Continuent Moniple
Second Quarter	
Identify the basic concepts of fraction	Lesson 2.1: Concepts of Fraction
Determine if the two fractions are	Lesson 2.2: Equivalent Fraction
equivalent or not.	
Learn how to compare and order	Lesson 2.3: Comparing and Ordering
fractions.	Fractions
	Lesson 2.4: Addition and Subtraction of
Learn how to perform and solve word	Fractions
problems using the basic operations in	Lesson 2.5: Multiplication of Fractions
fraction.	Lesson 2.6: Division of Fractions
Recognize the importance of knowing the	
place value of a decimal	Lesson 2.7: Place value of decimals
Learn how to compare and order	Lesson 2.8: Comparison and order of
decimals.	decimals
Round off decimals according to the	Lesson 2.9: Rounding off decimals
given place value.	

	Lesson 2.10: Addition and Subtraction of
Learn how to perform and solve word	Decimals
problems using the basic operations in	Lesson 2.11: Multiplication of Decimals
decimal.	Lesson 2.12: Division of Decimals
Third Quarter	
Describe the difference between ratio	
and proportion	Lesson 3.1: Ratio and Proportion
Identify the ratio and proportion of a	·
given problem.	
Identify rate as two proportions	
Solve word problems involving proportion	Lesson 3.2: Rate and Proportion
Identify the difference between direct	
and inverse proportion.	Lesson 3.3: Direct Proportion
Determine the relationship of two ratios	
whether they are direct or inverse	Laman 2 4 Invaria Pranartian
proportion.	Lesson 3.4: Inverse Proportion
Convert percents into fractions, into	Lesson 3.5: Introduction to Percents
decimals and vice versa.	Lesson 3.6: More on Fractions, decimals, and
	percents
Learn how to find the percentage,	Lesson 3.7: Finding the percentage of a
percent, and base of a number	number
Solve word problem involving	Lesson 3.8: Finding percent
percentage, base, and rate.	Lesson 3.9: Finding base
Identify some geometric figures and their	
properties.	Lesson 3.10: Angle Measure and Special
Classify kinds of angles and lines.	Angles.
Determine parts of a circle.	
Determine the properties of some angle	Lesson 3.11: Some angle relationships
relationships.	
Tell the parts of a triangle	
Classify kinds of triangle according to their	Lesson 3. 12: Triangles
sides and angle	
Solve the sum of the angles in a triangle.	
Name the different types of quadrilateral	Lesson 3.14: Quadrilateral and Polygons
and their properties	
Find the sum of angles of a quadrilateral.	
Identify similar and congruent figures.	Lacana 2 15. Consumers as a small Circle di
Determine the conditions of congruent	Lesson 3.15: Congruence and Similarity
triangles.	
Name different kinds of solid figures.	Losson 2.1/. Colid Figures and Their Net
Identify solids which can be formed by a	Lesson 3.16: Solid Figures and Their Net
net.	

Fourth Quarter	
Familiarize with different metric units	Lesson 4.1: Metric Everyone? Si!
for length, mass, and volume.	
Write the temperature reading shown	Lesson 4.2: Measuring Temperature

in thermometer	
Find the perimeter of plane geometric	
figures	Lesson 4.3: Perimeter and
Find the circumference of a circle.	Circumference
Find the area of plane geometric	Lesson 4.4: Area of Plane Geometric
figures.	Figures
Find the volume of geometric solids	Lesson 4.5: Volume of Solids
Differentiate and find the mode, mean, and median of a set of numbers	Lesson 4.6 Mode, Mean, and Median.
	Lesson 4.7: Bar Graph
Read and interpret bar, line, and	Lesson 4.8: Line Graph
circle graph.	Lesson 4.9: Circle Graph
Describe experimental probability.	Lesson 4.10: Exploring Experimental
Solve and create non-routine	Probability
problems involving experimental	
probability	
Identify the different strategies in	
solving for the unknown in simple	Lesson 4.11: Pattern and Sequence
equations involving one or more	
operations on whole numbers and	
fractions.	
Represent numbers using symbols or	Lavara 4 10: Alaula 1: 5
letters.	Lesson 4.12: Algebraic Expressions
Identify algebraic expressions	1
Simplify and evaluate simple	Lesson 4.13: Simplification and
algebraic expressions	Evaluation of Algebraic Expressions
Solve an algebraic expression by	Lesson 4.14: Solving Addition and
using the different properties of	Subtraction of Algebraic Expressions
equality of addition, subtraction,	Lesson 4.15: Solving Multiplication and
multiplication, and division	Division of Algebraic Expressions

## Reference:

Soaring 21st Century Mathematics 5 (2017). Phoenix Publishing House,, Inc.

**Time Allotment:** Four (4) synchronous sessions (40 minutes per session); Five (5) asynchronous sessions (40 minutes per session)

## **Promotion/Retention:**

- Assessments will be categorized as the following with the corresponding weight:
  - Short Quizzes (20%)
  - Written Outputs (35%)
  - Product and Performance Tasks (45%)
- **Short Quizzes**. These include summative assessments after every lesson, group of related lessons, or chapter.
- Written Outputs. These include data recording and analyses, geometric and statistical analyses, graphs, charts, or maps, problem sets, and surveys.

Product and Performance Tasks. These include diagrams, mathematical investigatory
projects, models or making models of geometric figures, number representations, constructing
graphs from survey conducted, multimedia presentation, outdoor math, probability
experiments, problem-posing, reasoning and proof through recitation, using manipulatives to
show math concepts or solve problems, and using measuring tools and devices.