

ABRAHAM LINCOLN AMERICAN ACADEMY

FIRST QUARTER SYLLABUS

TEACHER: **UCHE STANLEY ONYEKACHI**

SUBJECT AND GRADE: **MATH, GRADE 7**

DATE: **12TH SEPTEMBER 2022 – 11TH NOVEMBER 2022**

Topics

Number systems

Objectives

Exponents

Scientific notation

Representation

Rational operations

Objectives

Order of operations

Estimation of Whole Numbers

Fractions, Decimals, and Percent

Estimation

Number theory

Objectives

Prime and composite

Prime factorization

PGCF and LCM

Ratio, Proportion and Percent

Objectives

Ratios and Rates

Proportional Relationships

Proportions with Tables

Constant Ratios

Ratio, Proportion and Percent

Objectives

Percent

Simple Interest

Scale

Proportionality

Objectives

Determining proportional relationships from a table
 Determining Proportional Relationships From a Graph
 Identifying the Constant of Proportionality

Proportionality

Objectives

Identifying the Constant of Proportionality from Tables and Graphs
 Writing Equations for Proportional Relationships
 Explaining the Meaning of Points on a Graph

Integers and number lines

Objectives

Describing situations in which opposite quantities combine to make zero
 Modeling Sums of Opposites
 Adding Rational Numbers on Number Lines

Integers and number lines

Objectives

Modeling Distance on a Number Line
 Subtracting Rational Numbers on a Number Line
 Applying Distances Using Absolute Values

First Quarter Syllabus: Grade 7 Math			
Week	Day	Topic	Learning Objectives: At the end of the lesson, the students should be able to;
Week 1 12/09 – 16/09	Mon	Exponents	Express whole numbers using exponents
	Tue	Scientific notation	Express numbers greater than one using scientific notation and vice versa
	Wed	Activities on Exponents and Scientific Notation	Express whole numbers using exponents numbers greater than one using scientific notation and vice versa

	Thu	Representation	Write numbers in word and standard form
	Fri	Activities on Representation	Write numbers in word, standard, expanded, and scientific notation
Week 2 19/09 – 23/09	Mon	Order of operations	Apply order of operations to simplify numerical expressions
	Tue	Estimation of Whole Numbers	Use estimation to solve problems with whole numbers
	Wed	Fractions and Decimals	Knows relationships and can convert between fractions, decimals, and percent
	Thu	Percent	Knows relationships and can convert between fractions, decimals, and percent
	Fri	Estimation	Use estimation to solve problems with whole numbers, fractions, decimals, and percent
Week 3 26/09 – 30/09	Mon	Prime and composite	Identify numbers as prime or composite
	Tue	Prime and composite	Identify numbers as prime or composite
	Wed	Prime factorization	Find the prime factorization of whole numbers.\
	Thu	PGCF	Find the greatest common factor

	Fri	PGCF and LCM	Find the greatest common factor and least common multiple of two numbers.
Week 4 10/03 – 10/07	Mon	Ratios and Rates	Describe and use rate of change to solve problems.
	Tue	Proportions	Use proportional relationships to find measures of length, weight or mass, and capacity or volume
	Wed	Proportions	Use proportional relationships to find measures of length, weight or mass, and capacity or volume
	Thu	Constant Ratios	Use constant ratios to solve problems
	Fri	Constant Ratios	Use constant ratios to solve problems
Week 5 10/10 – 10/14	Mon	Percent	Solve real world problems involving discounts and mark ups
	Tue	Percent	Solve real world problems involving discounts and mark ups
	Wed	Simple Interest	Solve real world problems involving simple interest
	Thu	Scale	Identify proportional relationships in scale drawings

	Fri	Scale	Identify proportional relationships in scale drawings
Week 6 10/17 – 10/21	Mon	Determining proportional relationships from a table	Determine whether a relationship is proportional by testing for equivalent ratios in a table
	Tue	Determining proportional relationships from a table	Determine whether a relationship is proportional by testing for equivalent ratios in a table
	Wed	Determining Proportional Relationships From a Graph	Determine proportional relationships from a graph
	Thu	Fun Activities on Determining Proportional Relationships From a Graph	Determine proportional relationships from a graph
	Fri	Identifying the Constant of Proportionality	Identify the constant of proportionality
Week 7 10/24 – 10/28	Mon	Identifying the Constant of Proportionality from Tables and Graphs	Identify the constant of proportionality from tables and graphs
	Tue	Fun Activities on Identifying the Constant of Proportionality from Tables and Graphs	Identify the constant of proportionality from tables and graphs
	Wed	Writing Equations for	Write equations for proportional relationships

		Proportional Relationships	
	Thu	Fun Activities on Writing Equations for Proportional Relationships	Write equations for proportional relationships
	Fri	Explaining the Meaning of Points on a Graph	Explain the meaning of points on a graph
Week 8 10/31 – 11/04	Mon	Describing situations in which opposite quantities combine to make zero	Describe situations in which opposite quantities combine to make zero
	Tue	Describing situations in which opposite quantities combine to make zero	Describe situations in which opposite quantities combine to make zero
	Wed	Modeling Sums of Opposites	Model sums of opposites
	Thu	Adding Rational Numbers on Number Lines	Add rational numbers on number lines
	Fri	Fun Activities on Adding Rational Numbers on Number Lines	Add rational numbers on number lines
Week 9 11/07 – 11/11	Mon	Modeling Distance on a Number Line	Model distance on a number line

	Tue	Modeling Distance on a Number Line	Model distance on a number line
	Wed	Subtracting Rational Numbers on a Number Line	Subtract rational numbers on a number line
	Thu	Fun Activities on Subtracting Rational Numbers on a Number Line	Subtract rational numbers on a number line
	Fri	Applying Distances Using Absolute Values	Apply distances using absolute values