Curriculum Map Math-Course 1, Unit 1

Stage 1 Desired Results

ESTABLISHED GOALS

6.NS.A.1, 6.NS.B.2, 6.NS.B.3, 6.NS.B.4, 6.NS.C.7, 6.NS.C.7.a, 6.NS.C.7.b, 6.EE.A.1

Transfer

Students will be able to independently use their learning to…

Extend their understanding of addition, subtraction, multiplication and division of whole numbers, decimals and fractions

Meaning

UNDERSTANDINGS

Students will understand that…

There is a relationship between whole numbers, decimals and fractions

ESSENTIAL QUESTIONS

- Why is it important to be able to use whole numbers, fractions, and decimals to solve problems?
- How can you use visualization and estimation to solve problems?

Acquisition

Students will know and be skilled at…

- Compare and order decimals
- Add, subtract, multiply and divide decimals
- Divide by whole numbers
- Classifies a number as prime or composite
- Prime factorization and Exponents
- Greatest Common Factor/Least common Multiple
- Multiply and Divide Fractions and Mixed Numbers

Stage 2 - Evidence

Evaluative Criteria	**Assessment Evidence**
Rubric criteria as defined by Rubric	PERFORMANCE TASK(S): Embedded Assessment 1: Comparing and Computing with Whole Numbers and Decimals Embedded Assessment 2: Prime Factorization, Exponents, GCF, and LCM Embedded Assessment 3: Multiplying and Dividing Fractions and Mixed Numbers
	Other Evidence: ❖ **Every Lesson:** Check Your Understanding and Lesson Practice ❖ **Every Activity:** Activity Practice ❖ **Every Unit:** Getting Ready and Online Unit Test

Curriculum Map Math-Course 1, Unit 2

Stage 1 Desired Results

ESTABLISHED GOALS

6.NS.C.5, 6.NS.C.6, 6.NS.C.6.a, 6.NS.C.6.b, 6.NS.C.6.c, 6.NS.C.7, 6.NS.C.7.a, 6.NS.C.7.b, 6.NS.C.7.c, 6.NS.C.7.d, 6.NS.C.8

Transfer

Students will be able to independently use their learning to…

Solve real-world problems using the coordinate plane and numerical operations

Meaning

UNDERSTANDINGS

Students will understand that…

Numerical operations, ordering numbers, absolute value, and the coordinate plane can be representing in various ways and models.

ESSENTIAL QUESTIONS

How can integers be represented visually and how can operations with integers be represented with models?

How are positive and negative numbers used in real-world situations?

Acquisition

Students will know and be skilled at…

- Use the number line
- Add integers
- Subtract integers
- Use the Coordinate plane
- Multiply integers
- Divide integers

Stage 2 - Evidence

Evaluative Criteria	**Assessment Evidence**
Rubric criteria as defined by Rubric	PERFORMANCE TASK(S): Embedded Assessment 1: Number Line and Adding and Subtracting Integers Embedded Assessment 2: Coordinate Plane and Multiplying and Dividing
	OTHER EVIDENCE: ❖ **Every Lesson:** Check Your Understanding and Lesson Practice ❖ **Every Activity:** Activity Practice ❖ **Every Unit:** Getting Ready and Online Unit Test

Curriculum Map Math-Course 1, Unit 3

Stage 1 Desired Results

ESTABLISHED GOALS
6.EE.A.1, 6.EE.A.2, 6.EE.A.2.a, 6.EE.A.2.b, 6.EE.A.2.c, 6.EE.A.3, 6.EE.A.4, 6.EE.B.5, 6.EE.B.6, 6.EE.B.7, 6.EE.B.8, 6.EE.C.9

Transfer

Students will be able to independently use their learning to…
Solve one-step equations and inequalities using addition, subtraction, multiplication and division and graph solutions on number lines

Meaning

UNDERSTANDINGS	ESSENTIAL QUESTIONS
Students will understand that… Independent and dependent variables have an effect on algebraic expression	Why are tables, graphs, and equations useful for representing relationships? How can you use equations to solve real-world problems?

Acquisition

Students will know and be skilled at…

- Read, write, and evaluate expressions
- Apply the order of operations
- Apply properties to generate equivalent expressions
- Use variables to represent numbers
- Solve real-world and mathematical problems by writing and solving equations
- Solve real-world and mathematical problems by writing and solving equations and inequalities
- Graph an inequality
- Analyze the relationship between the dependent and independent variables

Stage 2 - Evidence

Evaluative Criteria	**Assessment Evidence**
Rubric criteria as defined by Rubric	PERFORMANCE TASK(S): Embedded Assessment 1: Order of Operations and Expressions Embedded Assessment 2: Expressions and Equations
	OTHER EVIDENCE: ❖ **Every Lesson:** Check Your Understanding and Lesson Practice ❖ **Every Activity:** Activity Practice ❖ **Every Unit:** Getting Ready and Online Unit Test

Curriculum Map Math-Course 1, Unit 4

Stage 1 Desired Results

ESTABLISHED GOALS
6.RP.A.1, 6.RP.A.2, 6.RP.A.3, 6.RP.A.3.a, 6.RP.A.3.b, 6.RP.A.3.c, 6.RP.A.3.d, 6.EE.C.9

Transfer

Students will be able to independently use their learning to…
Use manipulatives and tables to compare ratios and use those and unit rates to solve real-world problems.

Meaning

UNDERSTANDINGS
Students will understand that…
Clear and accurate understanding of an appropriate and efficient strategy results in mathematical accuracy

ESSENTIAL QUESTIONS
Why is it important to understand calculations with ratios, rates, and percents?

Why are proportional relationships important in mathematics?

Acquisition

Students will know and be skilled at…

- Solve problems involving ratios and proportional relationships
- Write equivalent ratios
- Find the percent of a quantity as a rate per 100
- Represent ratios and percents with fractions and decimals
- Use equivalent percents, fractions, and decimals to show parts of the same whole
- Represent percents with concrete models, fractions, and decimals

Stage 2 - Evidence

Evaluative Criteria	**Assessment Evidence**
Rubric criteria as defined by Rubric	PERFORMANCE TASK(S): Embedded Assessment 1: Ratios and Rates Embedded Assessment 2: Understanding and Applying Percents
	OTHER EVIDENCE: ❖ **Every Lesson:** Check Your Understanding and Lesson Practice ❖ **Every Activity:** Activity Practice ❖ **Every Unit:** Getting Ready and Online Unit Test

Curriculum Map Math-Course 1, Unit 5

Stage 1 Desired Results

ESTABLISHED GOALS
6.G.A.1, 6.G.A.2, 6.G.A.3, 6.G.A.4

Transfer

Students will be able to independently use their learning to…
Study properties of angles and polygons and investigate relationships among figures

Meaning

UNDERSTANDINGS
Students will understand that…
Two and three dimensional figures can be represented in a number of ways in order to best measure their properties

ESSENTIAL QUESTIONS
In what ways are geometric figures used in real life?

Why is it important to understand the characteristics of two- and three-dimensional figures?

Acquisition

Students will know and be skilled at…

- Classify triangles and quadrilaterals
- Find a missing angle measure in a triangle or a quadrilateral
- Find the area of a composite figure
- Solve real-world problems involving the area of rectangles, parallelograms, trapezoids, and triangles
- Represent prisms using nets
- Find the surface area and volume of prisms
- Solve real-world problems involving the surface area and volume of prisms

Stage 2 - Evidence

Evaluative Criteria	**Assessment Evidence**
Rubric criteria as defined by Rubric	PERFORMANCE TASK(S): Embedded Assessment 1: Geometric Concepts Embedded Assessment 2: Surface Area and Volume of Prisms
	OTHER EVIDENCE: ❖ **Every Lesson:** Check Your Understanding and Lesson Practice ❖ **Every Activity:** Activity Practice ❖ **Every Unit:** Getting Ready and Online Unit Test

Curriculum Map Math-Course 1, Unit 6

Stage 1 Desired Results

ESTABLISHED GOALS
6.SP.A.1, 6.SP.A.2, 6.SP.A.3, 6.SP.B.4, 6.SP.B.5, 6.SP.B.5.a, 6.SP.B.5.b, 6.SP.B.5.c, 6.SP.B.5.d

Transfer

Students will be able to independently use their learning to…
Develop an understanding of statistical questions and numerical and categorical variables

Meaning

UNDERSTANDINGS	ESSENTIAL QUESTIONS
Students will understand that… Creating and interpreting graphical representations of data requires statistical questioning skills.	How is data organized and presented in real-world situations? What are ways you can summarize data both numerically and graphically?

Acquisition

Students will know and be skilled at…

- Identify statistical questions
- Identify categorical and numerical variables
- Construct dot plots
- Determine measures of center
- Analyze shapes of distributions
- Write statistical questions
- Represent data with graphs
- Determine the five-number summary
- Find measures of center and variability
- Describe distributions

Stage 2 - Evidence

Evaluative Criteria	**Assessment Evidence**
Rubric criteria as defined by Rubric	PERFORMANCE TASK(S): Embedded Assessment 1: Types of Variables and Measures of Centers Embedded Assessment 2: Measures of Variability and Numerical Graphs
	OTHER EVIDENCE: ❖ **Every Lesson:** Check Your Understanding and Lesson Practice ❖ **Every Activity:** Activity Practice ❖ **Every Unit:** Getting Ready and Online Unit Test

Curriculum Map Math-Course 1, Unit 7

Stage 1 Desired Results

ESTABLISHED GOALS

Transfer

Students will be able to independently use their learning to…
Determine the costs and benefits of financial and life decisions

Meaning

UNDERSTANDINGS	ESSENTIAL QUESTIONS
Students will understand that… There is a connection between education, occupation, and lifetime income	❖ How can you build a good credit history? ❖ How can being financially literate help you plan for college and your future?

Acquisition

Students will know and be skilled at…

Stage 2 - Evidence

Evaluative Criteria	**Assessment Evidence**
Rubric criteria as defined by Rubric	PERFORMANCE TASK(S):
	OTHER EVIDENCE: ❖ **Every Lesson:** Check Your Understanding and Lesson Practice ❖ **Every Activity:** Activity Practice ❖ **Every Unit:** Getting Ready and Online Unit Test