Math·U·See®

	Date	Test Score	Proficiency
Pretest (Unit Test I)			

	LESSON PRACTICE			TEACH BACK	SYSTEMATIC REVIEW			A&E	Lesson Test	Test Date
	A	**B**	**C**		**D**	**E**	**F**			
1 Negative Numbers, Addition										
2 Negative Numbers, Subtraction										
3 Negative Numbers, Multiplication										
4 Negative Numbers, Division										
5 Exponents										
6 Place Value										
7 Negative Numbers with Exponents										

	Date	Test Score	Proficiency
Posttest (Unit Test I)			

LESSON OBJECTIVES

Lesson 1 **Negative Numbers, Addition**
PA.1.a — Add integers
PA.1.b — Explain how negative addends affect the sign of the sum

Lesson 2 **Negative Numbers, Subtraction**
PA.2.a — Subtract integers
PA.2.b — Rewrite subtraction of a negative as addition of a positive and vice versa

Lesson 3 **Negative Numbers, Multiplication**
PA.3.a — Multiply integers
PA.3.b — Explain how negative factors affect the sign of the product

Lesson 4 **Negative Numbers, Division**
PA.4.a — Divide integers
PA.4.b — Explain how the signs of the original numbers affect the sign of the quotient

Lesson 5 **Exponents**
PA.5.a — Convert from an exponential expression to a series of factors and vice versa
PA.5.b — Express exponential expressions in words

Lesson 6 **Place Value**
PA.6.a — Express quantities in standard notation, place-value notation, expanded notation, and exponential notation; convert among these notations
PA.6.b — Explain how dollars, dimes, and pennies are parallel to units, tenths, and hundredths, respectively

Lesson 7 **Negative Numbers with Exponents**
PA.7.a — Raise an integer to a power
PA.7.b — Explain how the use of parentheses affects the value of an integer raised to a power

	Date	Test Score	Proficiency
Pretest (Unit Test II)			

	LESSON PRACTICE			TEACH BACK	SYSTEMATIC REVIEW			A&E	Lesson Test	Test Date
	A	**B**	**C**		**D**	**E**	**F**			
8 Roots and Radicals										
9 Solve for an Unknown										
10 Pythagorean Theorem										
11 Associative and Commutative Properties										
12 Distributive Property										
13 Solve for an Unknown with Multiplicative Inverse										
14 Solve for an Unknown with Order of Operations										

	Date	Test Score	Proficiency
Posttest (Unit Test II)			

LESSON OBJECTIVES

Lesson 8 Roots and Radicals

PA.8.a   Identify the square root symbol

PA.8.b   Find square roots of perfect squares

Lesson 9 Solve for an Unknown

PA.9.a   Explain how adding the same amount to both sides of an equation does not affect its validity

PA.9.b   Solve equations for an unknown by using the additive inverse

Lesson 10 Pythagorean Theorem

PA.10.a   State the Pythagorean theorem

PA.10.b   Apply the Pythagorean theorem to solve for the length of the missing side of a right triangle

PA.10.c   Use the Pythagorean theorem to determine if a triangle is a right triangle when all the sides are known

Lesson 11 Associative and Commutative Properties

PA.11.a   Identify the operations to which the Associative and Commutative Properties apply

PA.11.b   Rewrite addition or multiplication problems using the Associative and/or Commutative Properties

PA.11.c   Rewrite subtraction problems as addition problems so that the Associative and Commutative Properties can be applied

PA.11.d   Apply the Associative and Commutative Properties to solve equations

Lesson 12 Distributive Property

PA.12.a   Explain how the Distributive Property can be used to solve a problem

PA.12.b   Rewrite expressions by applying the Distributive Property of Multiplication over Addition

PA.12.c   Rewrite expressions by finding the common factor

PA.12.d   Explain that variables with no specified coefficient are understood to have a coefficient of one

Lesson 13	**Solve for an Unknown with Multiplicative Inverse**
PA.13.a	Define multiplicative inverse
PA.13.b	Find the multiplicative inverse of a number
PA.13.c	Use the multiplicative inverse to solve equations
Lesson 14	**Solve for an Unknown with Order of Operations**
PA.14.a	Explain the order of operations and how it is applied to an expression
PA.14.b	Use the order of operations to evaluate expressions
PA.14.c	Use the order of operations to solve for an unknown in an equation

Math·U·See

Record Keeping: *PreAlgebra*

	Date	Test Score	Proficiency
Pretest (Unit Test III)			

	LESSON PRACTICE			TEACH BACK	SYSTEMATIC REVIEW			A&E	Lesson Test	Test Date
	A	**B**	**C**		**D**	**E**	**F**			
15 Surface Area of Solids										
16 Convert Celsius to Fahrenheit										
17 Convert Fahrenheit to Celsius										
18 Absolute Value										
19 Ratio and Proportion										
20 Similar Polygons										
21 Least Common Multiple										
22 Greatest Common Factor										

	Date	Test Score	Proficiency
Posttest (Unit Test III)			

LESSON OBJECTIVES

Lesson 15 Surface Area of Solids

PA.15.a Explain that the surface area of a solid is the sum of the areas of all external surfaces of the solid

PA.15.b Calculate the surface area of rectangular solids, including cubes, triangluar pyramids, and rectangular pyramids

PA.15.c Determine the surface area of rectangular solids to solve problems

Lesson 16 Convert Celsius to Fahrenheit

PA.16.a State the formula for converting Celsius to Fahrenheit

PA.16.b Convert temperature from degrees Celsius to degrees Fahrenheit

Lesson 17 Convert Fahrenheit to Celsius

PA.17.a State the formula for converting Fahrenheit to Celsius

PA.17.b Convert temperature from degrees Fahrenheit to degrees Celsius

Lesson 18 Absolute Value

PA.18.a Identify the absolute value symbol

PA.18.b Determine the absolute value of a number

PA.18.c Simplify absolute value expressions

Lesson 19 Ratio and Proportion

PA.19.a Explain the meaning of ratio and proportion

PA.19.b Solve problems involving proportions with unknowns

PA.19.c Write and solve proportions based on word problems

Lesson 20 Similar Polygons

PA.20.a Write a proportion to solve for the missing side length in a pair of similar polygons

Lesson 21 Least Common Multiple

PA.21.a Define Least Common Multiple (LCM)

PA.21.b Find the LCM of two numbers by listing their respective multiples

PA.21.c Find the LCM of two numbers using prime factorization

Lesson 22 Greatest Common Factor

PA.22.a Define Greatest Common Factor (GCF)

PA.22.b Find the GCF of two numbers by listing factors and selecting the greatest factor common to both lists

PA.22.c Find the GCF of two numbers using prime factorization

	Date	Test Score	Proficiency
Pretest (Unit Test IV)			

	LESSON PRACTICE			TEACH BACK	SYSTEMATIC REVIEW			A&E	Lesson Test	Test Date
	A	**B**	**C**		**D**	**E**	**F**			
23 Polynomials, Addition										
24 Volume of a Cylinder										
25 Polynomials, Multiplication										
26 Adding and Subtracting Time										
27 Volume of a Pyramid and a Cone										
28 Military Time, Addition and Subtraction										
29 Measurement, Addition and Subtraction										
30 Irrational Numbers										

	Date	Test Score	Proficiency
Posttest (Unit Test IV)			

LESSON OBJECTIVES

Lesson 23 Polynomials, Addition

☐ PA.23.a Define the terms polynomial, trinomial, binomial, and monomial

☐ PA.23.b Show the relationships among physical, pictorial, and symbolic representations of polynomials

☐ PA.23.c Calculate the sum of two polynomials

Lesson 24 Volume of a Cylinder

☐ PA.24.a Find the volume of a cylinder given the height and the radius or diameter

☐ PA.24.b Apply the formula $V = Bh$ to determine the volume of a cylinder

Lesson 25 Polynomials, Multiplication

☐ PA.25.a Build a rectangle with blocks to find the product of polynomials

☐ PA.25.b Multiply binomials

☐ PA.25.c Explain the similarity between multiplication of base-10 numbers and base-x numbers

Lesson 26 Adding and Subtracting Time

☐ PA.26.a Calculate elapsed time in hour and minute units

☐ PA.26.b Solve problems involving elapsed time in hours and minutes

Lesson 27 Volume of a Pyramid and a Cone

☐ PA.27.a Find the volume of a cone given its altitude and its radius or diameter

☐ PA.27.b Apply the formula $V = \frac{1}{3}Bh$ to determine the volume of a pyramid and cone

Lesson 28 Military Time, Addition and Subtraction

☐ PA.28.a Convert between military time and time on a 12-hour clock

☐ PA.28.b Perform operations of addition and subtraction with military time

Lesson 29 Measurement, Addition and Subtraction

☐ PA.29.a Perform addition and subtraction with multiple customary units of measure

Lesson 30 Irrational Numbers

☐ PA.30.a Explain the difference between a rational and irrational number

☐ PA.30.b Identify numbers as rational or irrational

☐ PA.30.c Find the square root of a number to the nearest hundredth, without a calculator