Math-U-See

Student _____

Record Keeping: *PreAlgebra*

	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

Proficiency Guide: A (Advanced) 90–100% **P** (Proficient) 80–89% **NP** (Nearing Proficiency) 70–79% **BS** (Beginning Steps) Below 70%

Math-U-See

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Record Keeping: *PreAlgebra*

	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

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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

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Student _____

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

Proficiency Guide: A (Advanced) 90–100% **P** (Proficient) 80–89% **NP** (Nearing Proficiency) 70–79% **BS** (Beginning Steps) Below 70%

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Record Keeping: *PreAlgebra*

	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

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