

Applied Algebra

Applied Algebra

****Taking the Pretest will allow the computer to figure out what information you already know and remove it so that you don't have to use time on thing you already know****

I. Unit 1 Rational Expressions

Completed _____

A. Evaluating Rational Expressions

1. Tutorial..... _____
2. Application..... _____
3. Mastery
Test..... _____
4. Offline
Activity..... _____

B. Restrictions on Rational expressions

1. Tutorial..... _____
2. Application..... _____
3. Mastery
Test..... _____
4. Offline
Activity..... _____
Equivalent forms of rational expressions
5. Tutorial..... _____
6. Application..... _____
7. Mastery
Test..... _____
8. Offline
Activity..... _____

C. Simplifying rational expressions

1. Tutorial..... _____

Application...

2. _____
3. Mastery
Test..... _____
4. Offline
Activity..... _____

D. Difference of rational expressions

1. Tutorial..... _____
2. Application..... _____
3. Mastery
Test..... _____
4. Offline
Activity..... _____

Applied Algebra

Applied Algebra

E. Product of rational expressions

- 1. Tutorial..... _____
- 2. Application..... _____
- 3. Mastery
Test..... _____
- 4. Offline
Activity..... _____

F. Quotient of rational expressions

- 1. Tutorial..... _____
- 2. Application..... _____
- 3. Mastery
Test..... _____
- 4. Offline
Activity..... _____

G. Common Denominators or rational expressions

- 1. Tutorial..... _____
- 2. Application..... _____
- 3. Mastery
Test..... _____
- 4. Offline
Activity..... _____

H. Sum of rational expressions

- 1. Tutorial..... _____
- 2. Application..... _____
- 3. Mastery
Test..... _____
- 4. Offline
Activity..... _____

I. Difference rational expressions

- 1. Tutorial..... _____
- 2. Application..... _____
- 3. Mastery
Test..... _____
- 4. Offline
Activity..... _____

J. Review: rational expressions

- 1. Tutorial..... _____
- 2. Application..... _____
- 3. Mastery
Test..... _____

Applied Algebra

Applied Algebra

4. Offline
Activity.....

II. Unit 2 Coordinate Plane

A. Pretest

B. Solutions of linear equations as ordered pairs

1. Tutorial.....

2. Application.....

3. Mastery

Test.....

4. Offline

Activity.....

C. Graphing a linear equation in 2 variables

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- 1. Tutorial..... _____
- 2. Application..... _____
- 3. Mastery
Test..... _____
- 4. Offline
Activity..... _____
- D. Graphing a linear inequality in 2 variables
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery
Test..... _____
 - 4. Offline
Activity..... _____
- E. Writing equations in slope-intercept form
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery
Test..... _____
 - 4. Offline
Activity..... _____
- F. Point-slope and Slope-intercept forms of equations
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery
Test..... _____
 - 4. Offline
Activity..... _____
- G. Identifying graphs from their equations
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery
Test..... _____
 - 4. Offline
Activity..... _____
- H. Parallel lines and their slopes
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery
Test..... _____
 - 4. Offline

Applied Algebra

Applied Algebra

- Activity..... _____
- I. Perpendicular lines and their slopes
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery Test..... _____
 - 4. Offline Activity..... _____
- J. Equation of a line given a point and a parallel line
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery Test..... _____
 - 4. Offline Activity..... _____
- K. Equation of a line given a point and a perpendicular line
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery Test..... _____
 - 4. Offline Activity..... _____
- L. Review..... _____

Applied Algebra

Applied Algebra

III. Unit 3 Systems

A. Pretest - Unit 3

B. Solving Linear Systems of Equations: Graphs

1. Tutorial..... _____
2. Application..... _____
3. Mastery
Test..... _____
4. Offline
Activity..... _____

C. Classifying Linear Systems:

1. Tutorial..... _____
2. Application..... _____
3. Mastery
Test..... _____
4. Offline
Activity..... _____

D. Solving Linear Systems of Inequalities: Graphs

1. Tutorial..... _____
2. Application..... _____
3. Mastery
Test..... _____
4. Offline
Activity..... _____

E. Solving Linear Systems of Equations: Substitution

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1.	Tutorial.....	_____
2.	Application.....	_____
3.	Mastery Test.....	_____
4.	Offline Activity.....	_____
F.	Solving Linear Systems of Equations: Addition	
1.	Tutorial.....	_____
2.	Application.....	_____
3.	Mastery Test.....	_____
4.	Offline Activity.....	_____
G.	Solving Linear Systems of Equations: Matrices 1	
1.	Tutorial.....	_____
2.	Application.....	_____
3.	Mastery Test.....	_____
4.	Offline Activity.....	_____
H.	Solving Linear Systems of Equations: Matrices 2	
1.	Tutorial.....	_____
2.	Application.....	_____
3.	Mastery Test.....	_____
4.	Offline Activity.....	_____
I.	Solving Linear-Quadratic Systems of Equations	
1.	Tutorial.....	_____
2.	Application.....	_____
3.	Mastery Test.....	_____
4.	Offline Activity.....	_____
J.	Solving Problems with Linear Systems	
1.	Tutorial.....	_____
2.	Application.....	_____
3.	Mastery Test.....	_____
4.	Offline	

Applied Algebra

Applied Algebra

Activity.....

K. Review: Linear Systems.....

IV. Unit 4 Matrices

- A. Matrix 1
- B. Matrix 2
- C. Matrix 3
- D. Matrix 4

Applied Algebra

Applied Algebra

V. Unit 5 Rational Expressions, Factoring, Equations, Inequalities

A. Pretest - Unit 1

B. Rules for Exponents and Radicals

1. Tutorial..... _____

2. Application..... _____

3. Mastery
Test..... _____

4. Offline
Activity..... _____

C. Rationalizing the Denominator in Rational Expressions

1. Tutorial..... _____

2. Application..... _____

3. Mastery
Test..... _____

4. Offline
Activity..... _____

D. Applying Rules for Exponents and Radicals

1. Tutorial..... _____

2. Application..... _____

3. Mastery
Test..... _____

4. Offline
Activity..... _____

E. Simplifying Algebraic Expressions

1. Tutorial..... _____

2. Application..... _____

3. Mastery
Test..... _____

4. Offline
Activity..... _____

F. Multiplying Algebraic Expressions

1. Tutorial..... _____

2. Application..... _____

3. Mastery
Test..... _____

4. Offline
Activity..... _____

G. Factoring Algebraic Expressions

1. Tutorial..... _____

2. Application..... _____

Applied Algebra

Applied Algebra

- 3. Mastery
Test..... _____
- 4. Offline
Activity..... _____
- H. Factoring or Using the Quadratic Formula
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery
Test..... _____
 - 4. Offline
Activity..... _____
- I. Rational Expressions: Simplify
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery
Test..... _____
 - 4. Offline
Activity..... _____
- J. Rational Expressions: Add and Subtract
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery
Test..... _____
 - 4. Offline
Activity..... _____
- K. Rational Expressions: Multiply and Divide
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery
Test..... _____
 - 4. Offline
Activity..... _____
- L. Dividing Polynomials using Synthetic Division
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery
Test..... _____
 - 4. Offline
Activity..... _____
- M. Simplifying Complex Fractions
 - 1. Tutorial..... _____

Applied Algebra

Applied Algebra

2.	Application.....	_____
3.	Mastery Test.....	_____
4.	Offline Activity.....	_____
N.	Evaluating Expressions with Absolute Value	
1.	Tutorial.....	_____
2.	Application.....	_____
3.	Mastery Test.....	_____
4.	Offline Activity.....	_____
O.	Solving Absolute Value Equations and Inequalities	
1.	Tutorial.....	_____
2.	Application.....	_____
3.	Mastery Test.....	_____
4.	Offline Activity.....	_____
P.	Absolute Value, Inequalities, and Interval Notation	
1.	Tutorial.....	_____
2.	Application.....	_____
3.	Mastery Test.....	_____
4.	Offline Activity.....	_____
Q.	Solving Equations Containing Radical Expressions	
1.	Tutorial.....	_____
2.	Application.....	_____
3.	Mastery Test.....	_____
4.	Offline Activity.....	_____
R.	Solving Equations Involving Algebraic Fractions	
1.	Tutorial.....	_____
2.	Application.....	_____
3.	Mastery Test.....	_____
4.	Offline Activity.....	_____

Applied Algebra

Applied Algebra

S. Graphing Linear Inequalities in 1 Variable

1. Tutorial..... _____

2. Application..... _____

3. Mastery
Test..... _____

4. Offline
Activity..... _____

T. Graphing with Restrictions on the Variable

1. Tutorial..... _____

2. Application..... _____

3. Mastery
Test..... _____

4. Offline
Activity..... _____

U. Graphing Solution Sets of Associated Inequalities

1. Tutorial..... _____

2. Application..... _____

3. Mastery
Test..... _____

4. Offline
Activity..... _____

Applied Algebra

Applied Algebra

VI. Unit 6 Functions

A. Pretest - Unit 2

B. Direct, Inverse, and Joint Variation

1. Tutorial..... _____
2. Application..... _____
3. Mastery
Test..... _____
4. Offline
Activity..... _____

C. Defining a Function with Its Rule

1. Tutorial..... _____
2. Application..... _____
3. Mastery
Test..... _____
4. Offline
Activity..... _____

D. Finding Values of a Function Using Its Rule

1. Tutorial..... _____
2. Application..... _____
3. Mastery
Test..... _____
4. Offline
Activity..... _____

E. Equations and Graphs of Functions, Part 1

1. Tutorial..... _____
2. Application..... _____
3. Mastery

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Applied Algebra

	Test.....	_____
4.	Offline	
	Activity.....	_____
F.	Equations and Graphs of Functions, Part 2	
1.	Tutorial.....	_____
	Application.....	_____
3.	Mastery	
	Test.....	_____
4.	Offline	
	Activity.....	_____
G.	Graphing Absolute Value Functions	
1.	Tutorial.....	_____
	Application.....	_____
3.	Mastery	
	Test.....	_____
4.	Offline	
	Activity.....	_____
H.	Translations and Transformations	
1.	Tutorial.....	_____
	Application.....	_____
3.	Mastery	
	Test.....	_____
4.	Offline	
	Activity.....	_____
I.	Functional Values	
1.	Tutorial.....	_____
	Application.....	_____
3.	Mastery	
	Test.....	_____
4.	Offline	
	Activity.....	_____
J.	Operations on Functions	
1.	Tutorial.....	_____
	Application.....	_____
3.	Mastery	
	Test.....	_____
4.	Offline	
	Activity.....	_____
K.	Composite Functions	
1.	Tutorial.....	_____

Applied Algebra

Applied Algebra

- 2. Application.....
- 3. Mastery
Test.....
- 4. Offline
Activity.....
- 5. Tutorial.....

- 6. Application.....
- 7. Mastery
Test.....
- 8. Offline
Activity.....
- L. Inverse of a Function
 - 1. Tutorial.....

 - 2. Application.....
 - 3. Mastery
Test.....
 - 4. Offline
Activity.....
- M. Determining if a Function Has an Inverse
 - 1. Tutorial.....

 - 2. Application.....
 - 3. Mastery
Test.....
 - 4. Offline
Activity.....
- N. Solving Problems with Linear Functions
 - 1. Tutorial.....

 - 2. Application.....
 - 3. Mastery
Test.....
 - 4. Offline
Activity.....
- O. Solving Problems with Quadratic Functions
 - 1. Tutorial.....

 - 2. Application.....
 - 3. Mastery
Test.....
 - 4. Offline
Activity.....

Applied Algebra

Applied Algebra

VII. Unit 7 Logarithms and Complex Numbers

A. Pretest - Unit 3

B. Properties of Exponential Functions

1. Tutorial..... _____
2. Application..... _____
3. Mastery
Test..... _____
4. Offline
Activity..... _____

C. Properties of Logarithmic Functions

1. Tutorial..... _____
2. Application..... _____
3. Mastery
Test..... _____
4. Offline
Activity..... _____

D. Recognizing Graphs of Types of Functions

1. Tutorial..... _____
2. Application..... _____
3. Mastery
Test..... _____
4. Offline
Activity..... _____

E. Solving Problems: Exponential and Logarithmic

1. Tutorial..... _____
2. Application..... _____
3. Mastery
Test..... _____
4. Offline

Applied Algebra

Applied Algebra

- Activity..... _____
- F. Exponential Growth
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery Test..... _____
 - 4. Offline Activity..... _____
- G. Exponential Decay
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery Test..... _____
 - 4. Offline Activity..... _____
- H. Plotting Complex Numbers in the Plane
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery Test..... _____
 - 4. Offline Activity..... _____
- I. Adding and Subtracting Complex Numbers
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery Test..... _____
 - 4. Offline Activity..... _____
- J. Multiplying and Dividing Complex Numbers
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery Test..... _____
 - 4. Offline Activity..... _____
- K. Solve Quadratic Equations in the Complex Number System
 - 1. Tutorial..... _____
 - 2. Application..... _____
 - 3. Mastery

Applied Algebra

Applied Algebra

Test.....	_____
4. Offline	
Activity.....	_____