Wallenpaupack Area School District
Planned Course Curriculum Guide

Department
Math

Name of Course
Transitional Math 7

Course Description:

7th Grade Transitional Math includes the study and application of the following topics:

- Explore algebraic expressions and integers
- Simplify and evaluate variable expressions using the property of numbers
- Understand factors, fractions, exponents
- Apply operations with percents, fractions and decimals
- Use data analysis and probability
- Solve one-step and two-step equations and inequalities
- Explore proportional relationships and ratios
- Utilize area, surface area, and volume of two and three dimensional shapes
- Identify points, lines, and angles and angle relationships
- Be introduced to relations, linear functions, and their graphs
- Convert between customary and metric units of measure (time permitting)

Revision Date:
September 2015

This PCCG is designed as an ACTIVE document capable of technological modification as required.

Wallenpaupack Area School District Curriculum	
COURSE: Transitional Math 7	**GRADE/S: 7**
UNIT 1: Algebraic Expressions and Integers	**TIMEFRAME: 3-5 weeks**

PA COMMON CORE/NATIONAL STANDARDS:
- **CC.2.1.7.E.1** Apply and extend previous understandings of operations with fractions to operations with rational numbers.
- **CC.2.2.7.B.1** Apply properties of operations to generate equivalent expressions.
- **CC.2.2.7.B.3** Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations.

UNIT OBJECTIVES (SWBATS):
- **Compare integers and find absolute value**
- **Use the order of order of operations to evaluate expressions**
- **Perform operations with integers**
- **Identify, write, and solve numerical and variable expressions**
- **Graph points on the coordinate plane and identify quadrants**

INSTRUCTIONAL STRATEGIES/ACTIVITIES:
- Note taking
- Homework and practice
- Cooperative learning
- Peer interaction
- Modeling
- Active participation

ANCHOR VOCABULARY:
Chapter 1
- Absolute value
- Additive Inverse (Opposites)
- Integers
- Simplify
- Evaluate
- Exponent
- Quantity
- Order of operations
- Variable
- Numerical expression
- Variable expression
- Substitution
- Coordinate plane
- Ordered pair
- Origin
- Quadrants
- X-axis
- X-coordinate
- Y-axis
- Y-coordinate

ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):
Diagnostic
    • Unit 1 Pre-Test
    • CDTs
Formative
    • Teacher observation
    • Unit quizzes
    • Unit test
    • Study island
Summative
    • Final Exam
    • PSSAs

EVIDENCE OF MASTERY/Cut Score (PSSA):
    • PSSA Proficient (1000-1107) Advanced (1108 and up)
    • Objective Assessment Score of 70%

DIFFERENTIATED INSTRUCTION (Remediation/Extension) (Process, Product or Content)   • Appropriate accommodations based on the student's IEP/504 Plan
RESOURCES (Websites, Blogs, Videos, Whiteboard Resources, etc.): Textbook: Pre-Algebra "Tools for a Changing World" @ 2001 (Prentice Hall) www.phschool.com www.studyisland.com Scientific calculators Math manipulative Notes Supplemental handouts/worksheets/websites Coach Workbooks Graph paper White boards Projector/TV SAS May vary based on instructor, class, availability, updates
RESOURCE SPECIFIC VOCABULARY: Math 7 Standards Glossary www.pdesas.org

Wallenpaupack Area School District Curriculum	
COURSE: Transitional Math 7	**GRADE/S: 7**
UNIT 2: Simplifying Variable Expressions using the Properties of Numbers	**TIMEFRAME: 2-3 weeks**

PA COMMON CORE/NATIONAL STANDARDS:
- **CC.2.1.7.E.1** Apply and extend previous understandings of operations with fractions to operations with rational numbers.
- **CC.2.2.7.B.1** Apply properties of operations to generate equivalent expressions.
- **CC.2.2.7.B.3** Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations.

UNIT OBJECTIVES (SWBATS):
- Use the distributive property to create equivalent expressions
- Identify the property of numbers
- Combine like terms

INSTRUCTIONAL STRATEGIES/ACTIVITIES:
- Note taking
- Homework and practice
- Cooperative learning
- Peer interaction
- Modeling
- Active participation

ANCHOR VOCABULARY:
- Identity Properties of Addition and Multiplication
- Associative Properties of Addition and Multiplication
- Commutative Properties of Addition and Multiplication
- Distributive Property
- Coefficient
- Constant
- Term
- Like terms

ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):
Diagnostic
- Unit 2 Pre-Test
- CDTs

Formative
- Teacher observation
- Unit quizzes
- Unit test
- Study island

Summative
- Final Exam
- PSSAs

EVIDENCE OF MASTERY/Cut Score (PSSA):
• PSSA Proficient (1000-1107) Advanced (1108 and up) • Objective Assessment Score of 70%
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Wallenpaupack Area School District Curriculum	
COURSE: Transitional Math 7	**GRADE/S: 7**
UNIT 3: Rational Number Sense	**TIMEFRAME: 3-5 weeks**

PA COMMON CORE/NATIONAL STANDARDS:
- **CC.2.1.7.E.1** Apply and extend previous understandings of operations with fractions to operations with rational numbers.
- **CC.2.2.7.B.1** Apply properties of operations to generate equivalent expressions.
- **CC.2.2.7.B.3** Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations.

UNIT OBJECTIVES (SWBATS):
- Identify the divisibility of numbers using algorithms
- Find prime factorization, greatest common factor, and least common multiple using algorithms
- Simplify fractions with and without variables
- Convert between fractions, and decimals
- Compare and order rational numbers

INSTRUCTIONAL STRATEGIES/ACTIVITIES:
- Note taking
- Homework and practice
- Cooperative learning
- Peer interaction
- Modeling
- Active participation

ANCHOR VOCABULARY:
- Divisible
- Prime
- Composite
- Factor
- Simplest Form
- Prime Factorization
- Greatest Common Factor (GCF)
- Least Common Multiple (LCM)
- Rational Number

ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):
Diagnostic
- Unit 3 Pre-Test
- CDTs
Formative
- Teacher observation
- Unit quizzes
- Unit test
- Study island
Summative
- Final Exam
- PSSAs

EVIDENCE OF MASTERY/Cut Score (PSSA):   • PSSA Proficient (1000-1107) Advanced (1108 and up)   • Objective Assessment Score of 70%
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Wallenpaupack Area School District Curriculum	
COURSE: Transitional Math 7	**GRADE/S: 7**
UNIT 4: Operations with Fractions and Decimals	**TIMEFRAME: 2-4 weeks**

PA COMMON CORE/NATIONAL STANDARDS:
- **CC.2.1.7.E.1** Apply and extend previous understandings of operations with fractions to operations with rational numbers.
- **CC.2.2.7.B.1** Apply properties of operations to generate equivalent expressions.
- **CC.2.2.7.B.3** Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations.

UNIT OBJECTIVES (SWBATS):
- Learn how to find a common denominator
- Learn how to add, subtract, multiply and divide fractions with and without variables
- Learn how to add, subtract, multiply and divide decimals

INSTRUCTIONAL STRATEGIES/ACTIVITIES:
- Note taking
- Homework and practice
- Cooperative learning
- Peer interaction
- Modeling
- Active participation

ANCHOR VOCABULARY:
- Multiple
- Least common denominator (LCD)
- Reciprocal
- Inverse
- Repeating decimal
- Terminating decimal

ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):
Diagnostic
- Unit 4 Pre-Test
- CDTs
Formative
- Teacher observation
- Unit quizzes
- Unit test
- Study island
Summative
- Final Exam
- PSSAs

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Wallenpaupack Area School District Curriculum	
COURSE: Transitional Math 7	**GRADE/S: 7**
UNIT 5: Percents, Data Analysis and Probability	**TIMEFRAME: 3-5 weeks**

PA COMMON CORE/NATIONAL STANDARDS:
- **CC.2.1.7.E.1** Apply and extend previous understandings of operations with fractions to operations with rational numbers.
- **CC.2.2.7.B.3** Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations.
- **CC.2.4.7.B.3** Investigate chance processes and develop, use, and evaluate probability models.

UNIT OBJECTIVES (SWBATS):
- How to use graphs to represent data
- How to find theoretical probability and experimental probability
- How to find independent and dependent events
- How to find simple and compound probability

INSTRUCTIONAL STRATEGIES/ACTIVITIES:
- Note taking
- Homework and practice
- Cooperative learning
- Peer interaction
- Modeling
- Active participation

ANCHOR VOCABULARY:
- Measure of Central Tendency
- Mean
- Median
- Mode
- Range
- Box-and-whisker plot (five number summary)
- Quartile
- Interquartile Range
- Lower and Upper Extremes
- Frequency table
- Line plot
- Histogram
- Probability
- Counting principal
- Simple probability
- Compound probability
- Dependent event
- Independent event
- Experimental probability
- Theoretical probability

ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):
Diagnostic •   Unit 5 Pre-Test •   CDTs Formative •   Teacher observation •   Unit quizzes •   Unit test •   Study island Summative •   Final Exam •   PSSAs
EVIDENCE OF MASTERY/Cut Score (PSSA): •   PSSA Proficient (1000-1107) Advanced (1108 and up) •   Objective Assessment Score of 70%
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Wallenpaupack Area School District Curriculum	
COURSE: Transitional Math 7	**GRADE/S: 7**
UNIT 6: Equations	**TIMEFRAME: 3-5 weeks**

PA COMMON CORE/NATIONAL STANDARDS:
- **CC.2.1.7.E.1** Apply and extend previous understandings of operations with fractions to operations with rational numbers.
- **CC.2.2.7.B.1** Apply properties of operations to generate equivalent expressions.
- **CC.2.2.7.B.3** Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations.

UNIT OBJECTIVES (SWBATS):
- Identify whether an equation is true, false, or open
- Write and solve one-step, two-step, and multi-step equations using all forms of rational numbers
- Apply the simple interest formula

INSTRUCTIONAL STRATEGIES/ACTIVITIES:
- Note taking
- Homework and practice
- Cooperative learning
- Peer interaction
- Modeling
- Active participation

ANCHOR VOCABULARY:
- Open Sentence
- Equation (Number Sentence)
- Balance
- Inverse Operation
- Solution
- Isolation

ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):
Diagnostic
- Unit 6 Pre-Test
- CDTs
Formative
- Teacher observation
- Unit quizzes
- Unit test
- Study island
Summative
- Final Exam
- PSSAs

EVIDENCE OF MASTERY/Cut Score (PSSA):
- PSSA Proficient (1000-1107) Advanced (1108 and up)
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Wallenpaupack Area School District Curriculum	
COURSE: Transitional Math 7	**GRADE/S: 7**
UNIT 7: Inequalities	**TIMEFRAME: 2-3 weeks**

PA COMMON CORE/NATIONAL STANDARDS:
- **CC.2.1.7.E.1** Apply and extend previous understandings of operations with fractions to operations with rational numbers.
- **CC.2.2.7.B.1** Apply properties of operations to generate equivalent expressions.
- **CC.2.2.7.B.3** Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations.

UNIT OBJECTIVES (SWBATS):
- Write and solve one-step, two-step, and multi-step inequalities using all forms of rational numbers

INSTRUCTIONAL STRATEGIES/ACTIVITIES:
- Note taking
- Homework and practice
- Cooperative learning
- Peer interaction
- Modeling
- Active participation

ANCHOR VOCABULARY:
- Inequality
- At least
- At most

ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):
Diagnostic
- Unit 7 Pre-Test
- CDTs

Formative
- Teacher observation
- Unit quizzes
- Unit test
- Study island

Summative
- Final Exam
- PSSAs

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Math 7 Standards Glossary www.pdesas.org

Wallenpaupack Area School District Curriculum	
COURSE: Transitional Math 7	**GRADE/S: 7**
UNIT 8: Ratios and Proportional Relationships	**TIMEFRAME: 3-5 weeks**

PA COMMON CORE/NATIONAL STANDARDS:
- **CC.2.1.7.D.1** Analyze proportional relationships and use them to model and solve real-world and mathematical problems.
- **CC.2.1.7.E.1** Apply and extend previous understandings of operations with fractions to operations with rational numbers.
- **CC.2.2.7.B.1** Apply properties of operations to generate equivalent expressions.
- **CC.2.2.7.B.3** Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations.
- **CC.2.4.7.B.1** Draw inferences about populations based on random sampling concepts.
- **CC.2.4.7.B.2** Draw informal comparative inferences about two populations.
- **CC.2.4.7.B.3** Investigate chance processes and develop, use, and evaluate probability models.

UNIT OBJECTIVES (SWBATS):
- Identify the difference between rates and ratios
- Find the constant of proportionality with and without graph
- Identify, write and solve proportions
- Tell whether figures are proportional using similarity and scale
- Find the percent of change
- Learn how to find markup, discount and selling price
- Learn how to use random sampling to draw inferences

INSTRUCTIONAL STRATEGIES/ACTIVITIES:
- Note taking
- Homework and practice
- Cooperative learning
- Peer interaction
- Modeling
- Active participation

ANCHOR VOCABULARY:
- Cross products
- Markup
- Discount
- Percent
- Percent of change
- Proportion
- Constant of proportionality
- Rate
- Ratio
- Unit rate
- Scale drawing
- Similar figures
- Congruent figures
- Random Sample
- Population

• Inference

ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):

Diagnostic
- Unit 8 Pre-Test
- CDTs

Formative
- Teacher observation
- Unit quizzes
- Unit test
- Study island

Summative
- Final Exam
- PSSAs

EVIDENCE OF MASTERY/Cut Score (PSSA):
- PSSA Proficient (1000-1107) Advanced (1108 and up)
- Objective Assessment Score of 70%

DIFFERENTIATED INSTRUCTION (Remediation/Extension) (Process, Product or Content)
- Appropriate accommodations based on the student's IEP/504 Plan

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Textbook: Pre-Algebra "Tools for a Changing World" @ 2001 (Prentice Hall)

www.phschool.com

www.studyisland.com

Scientific calculators

Math manipulative

Notes

Supplemental handouts/worksheets/websites

Coach Workbooks

Graph paper

White boards

Projector/TV

SAS

May vary based on instructor, class, availability, updates

RESOURCE SPECIFIC VOCABULARY:

Math 7 Standards Glossary www.pdesas.org

Wallenpaupack Area School District Curriculum	
COURSE: Transitional Math 7	**GRADE/S: 7**
UNIT 9: Area, Surface Area, and Volume of Polygons	**TIMEFRAME: 3-5 weeks**

PA COMMON CORE/NATIONAL STANDARDS: • **CC.2.1.7.E.1** Apply and extend previous understandings of operations with fractions to operations with rational numbers. • **CC.2.2.7.B.1** Apply properties of operations to generate equivalent expressions. • **CC.2.2.7.B.3** Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations. • **CC.2.3.7.A.1** Solve real-world and mathematical problems involving angle measure, area, surface area, circumference, and volume. • **CC.2.3.7.A.2** Visualize and represent geometric figures and describe the relationships between them.
UNIT OBJECTIVES (SWBATS): • Learn how to classify geometric figures • Identify parts of a circle • Find perimeter, area, surface area, and volume of various figures
INSTRUCTIONAL STRATEGIES/ACTIVITIES: • Note taking • Homework and practice • Cooperative learning • Peer interaction • Modeling • Active participation
ANCHOR VOCABULARY: • Altitude • Circumference • Radius • Diameter • Chord • Area • Lateral Area • Cone • Square unit • Cubic unit • Polygon • Regular Polygon • Cylinder • Net • Prism • Pyramid • Slant height • Space figure • Surface area

• Volume

ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):

Diagnostic
- Unit 9 Pre-Test
- CDTs

Formative
- Teacher observation
- Unit quizzes
- Unit test
- Study island

Summative
- Final Exam
- PSSAs

EVIDENCE OF MASTERY/Cut Score (PSSA):
- PSSA Proficient (1000-1107) Advanced (1108 and up)
- Objective Assessment Score of 70%

DIFFERENTIATED INSTRUCTION (Remediation/Extension) (Process, Product or Content)
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Scientific calculators

Math manipulative

Notes

Supplemental handouts/worksheets/websites

Coach Workbooks

Graph paper

White boards

Projector/TV

SAS

May vary based on instructor, class, availability, updates

RESOURCE SPECIFIC VOCABULARY:

Math 7 Standards Glossary www.pdesas.org

Wallenpaupack Area School District Curriculum	
COURSE: Transitional Math 7	**GRADE/S: 7**
UNIT 10: Points, Lines and Angles	**TIMEFRAME: 2-3 weeks**

PA COMMON CORE/NATIONAL STANDARDS:
- **CC.2.2.7.B.1** Apply properties of operations to generate equivalent expressions.
- **CC.2.2.7.B.3** Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations.
- **CC.2.3.7.A.1** Solve real-world and mathematical problems involving angle measure, area, surface area, circumference, and volume.
- **CC.2.3.7.A.2** Visualize and represent geometric figures and describe the relationships between them.

UNIT OBJECTIVES (SWBATS):
- Learn how to use properties of figures to solve problems
- Learn the names and relationship between angles formed when parallel lines are cut by a transversal
- Learn to identify parallel, perpendicular and skew line segments in three dimensional figures

INSTRUCTIONAL STRATEGIES/ACTIVITIES:
- Note taking
- Homework and practice
- Cooperative learning
- Peer interaction
- Modeling
- Active participation

ANCHOR VOCABULARY:
- Adjacent angles
- Alternate interior angles
- Alternate exterior angles
- Corresponding angles
- Complementary angles
- Supplementary angles
- Vertical angles
- Congruent angles
- Point
- Line
- Line Segment
- Ray
- Plane
- Parallel
- Perpendicular
- Skew
- Transversal

ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):
Diagnostic
   • Unit 10 Pre-Test
   • CDTs
Formative
   • Teacher observation
   • Unit quizzes
   • Unit test
   • Study island
Summative
   • Final Exam
   • PSSAs

EVIDENCE OF MASTERY/Cut Score (PSSA):
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Wallenpaupack Area School District Curriculum	
COURSE: Transitional Math 7	**GRADE/S: 7**
UNIT 11: Linear Functions and Graphing	**TIMEFRAME: 3-5 weeks**

PA COMMON CORE/NATIONAL STANDARDS:
- **CC.2.1.7.D.1** Analyze proportional relationships and use them to model and solve real-world and mathematical problems.
- **CC.2.2.7.B.1** Apply properties of operations to generate equivalent expressions.
- **CC.2.2.7.B.3** Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations.

UNIT OBJECTIVES (SWBATS):
- Learn how to determine whether a relation is a function
- Learn how to recognize positive and negative slope and interperet its meaning
- Learn how to solve linear equations
- Learn how to solve systems of linear equations and inequalities
- Learn how to solve a problem by graphing

INSTRUCTIONAL STRATEGIES/ACTIVITIES:
- Note taking
- Homework and practice
- Cooperative learning
- Peer interaction
- Modeling
- Active participation

ANCHOR VOCABULARY:
- Domain
- Range
- Relation
- Function
- Vertical-line test
- Function rule
- Linear equation
- Linear inequality
- Positive correlation
- Negative correlation
- No correlation
- Scatter plot
- Slope
- Slope-intercept form
- System of linear equations
- System of linear inequalities
- Trend line
- Y-intercept

ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):
Diagnostic
    • Unit 11 Pre-Test
    • CDTs
Formative
    • Teacher observation
    • Unit quizzes
    • Unit test
    • Study island
Summative
    • Final Exam
    • PSSAs

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Wallenpaupack Area School District Curriculum	
COURSE: Transitional Math 7	**GRADE/S: 7**
UNIT 12: Multiplying and Dividing Expressions with Exponents	**TIMEFRAME: 1-2 weeks (time permitting)**

PA COMMON CORE/NATIONAL STANDARDS:
- **CC.2.1.7.E.1** Apply and extend previous understandings of operations with fractions to operations with rational numbers.
- **CC.2.2.7.B.1** Apply properties of operations to generate equivalent expressions.

UNIT OBJECTIVES (SWBATS):
- Learn to simplify fractions using variables with exponents with and without a fraction bar
- Learn to multiply variables with exponents
- Write numbers using scientific notation

INSTRUCTIONAL STRATEGIES/ACTIVITIES:
- Note taking
- Homework and practice
- Cooperative learning
- Peer interaction
- Modeling
- Active participation

ANCHOR VOCABULARY:
- Power
- Base
- Scientific Notation

ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):
Diagnostic
- Unit 12 Pre-Test
- CDTs

Formative
- Teacher observation
- Unit quizzes
- Unit test
- Study island

Summative
- Final Exam
- PSSAs

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Scientific calculators

Math manipulative Notes Supplemental handouts/worksheets/websites Coach Workbooks Graph paper White boards Projector/TV SAS May vary based on instructor, class, availability, updates
RESOURCE SPECIFIC VOCABULARY: Math 7 Standards Glossary www.pdesas.org

Wallenpaupack Area School District Curriculum	
COURSE: Transitional Math 7	**GRADE/S: 7**
UNIT 13: Measurement	**TIMEFRAME: 1-2 weeks (time permitting)**

PA COMMON CORE/NATIONAL STANDARDS:
- **CC.2.1.7.E.1** Apply and extend previous understandings of operations with fractions to operations with rational numbers.
- **CC.2.2.7.B.1** Apply properties of operations to generate equivalent expressions.
- **CC.2.2.7.B.3** Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations.

UNIT OBJECTIVES (SWBATS):
- How to convert between customary units of measure
- How to convert between metric units of measure
- How to convert rates
- Learn the latin metric prefixes and their meanings

INSTRUCTIONAL STRATEGIES/ACTIVITIES:
- Note taking
- Homework and practice
- Cooperative learning
- Peer interaction
- Modeling
- Active participation

ANCHOR VOCABULARY:
- Dimensional analysis
- Meter
- Liter
- Gram
- Base Unit
- Kilo-
- Hecto-
- Deka-
- Deci-
- Centi-
- Milli-

ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):
Diagnostic
- Unit 13 Pre-Test
- CDTs

Formative
- Teacher observation
- Unit quizzes
- Unit test
- Study island

Summative • Final Exam • PSSAs
EVIDENCE OF MASTERY/Cut Score (PSSA): • PSSA Proficient (1000-1107) Advanced (1108 and up) • Objective Assessment Score of 70%
DIFFERENTIATED INSTRUCTION (Remediation/Extension) (Process, Product or Content) • Appropriate accommodations based on the student's IEP/504 Plan
RESOURCES (Websites, Blogs, Videos, Whiteboard Resources, etc.): Textbook: Pre-Algebra "Tools for a Changing World" @ 2001 (Prentice Hall) www.phschool.com www.studyisland.com Scientific calculators Math manipulative Notes Supplemental handouts/worksheets/websites Coach Workbooks White boards Projector/TV SAS May vary based on instructor, class, availability, updates
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