Wallenpaupack Area School District Planned Course Curriculum Guide

Department Math

Name of Course

Math 7

Course Description:

- 7th Grade Math 7 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
- Introduce relations, linear functions and their graphs
- Convert between customary and metric units of measure
- Understand properties of right triangles (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: Math 7	GRADE/S: 7
UNIT 1: Algebraic Expressions and Integers	TIMEFRAME: 3-5 weeks

- **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
White boards
Projector/TV
SAS
May vary based on instructor, class, availability, updates
RESOURCE SPECIFIC VOCABULARY:
Math 7 Standards Glossary www.pdesas.org

COURSE: Math 7 GRADE/S: 7 UNIT 2: Simplifying Variable Expressions using the Properties of Numbers TIMEFRAME: 2-3 weeks PA COMMON CORE/NATIONAL STANDARDS: • • • <	Wallenpaupack Area School District Curriculum	
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the Properties of Numbers 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.1 Apply properties of operations to generate equivalent expressions. • 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 STARTEGIES/ACTIVITES: • 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 • Constant • Term • Like terms ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative): Diagnostic • Unit 1 2 Pre-Test </th <th>UNIT 2: Simplifying Variable Expressions using</th> <th>TIMEFRAME: 2-3 weeks</th>	UNIT 2: Simplifying Variable Expressions using	TIMEFRAME: 2-3 weeks
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 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 	• Term	
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Diagnostic • Unit 2 Pre-Test • CDTs Formative • Teacher observation • Unit quizzes • Unit test • Study island Summative • Final Exam • PSSAs	ASSESSMENTS (Diagnostic/Benchmark/Formative/S	Summative):
 Unit 2 Pre-Test CDTs Formative Teacher observation Unit quizzes Unit test Study island Summative Final Exam PSSAs 	Diagnostic	
 CDTs Formative Teacher observation Unit quizzes Unit test Study island Summative Final Exam PSSAs 	Unit 2 Pre-Test	
Formative Teacher observation Unit quizzes Unit test Study island Summative Final Exam PSSAs	• CDTs	
 Teacher observation Unit quizzes Unit test Study island Summative Final Exam PSSAs 	Formative	
 Unit quizzes Unit test Study island Summative Final Exam PSSAs 	Teacher observation	
 Unit test Study island Summative Final Exam PSSAs 	Unit quizzes	
 Study island Summative Final Exam PSSAs 	Unit test	
Summative Final Exam PSSAs 	Study island	
Final ExamPSSAs	Summative	
• PSSAs	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
RESOURCE SPECIFIC VOCABULARY:
Math 7 Standards Glossary <u>www.pdesas.org</u>

Wallenpaupack Area School District Curriculum	
COURSE: Math 7	GRADE/S: 7
UNIT 3: Rational Number Sense	TIMEFRAME: 3-5 weeks

- **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%
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.):
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www.phschool.com
www.studyisland.com
Scientific calculators
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Notes
Supplemental handouts/worksheets/websites
Coach Workbooks
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: Math 7	GRADE/S: 7
UNIT 4: Operations with Fractions and Decimals	TIMEFRAME: 2-4 weeks

- 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

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 RESOURCE SPECIFIC VOCABULARY: Math 7 Standards Glossary www.pdesas.org

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

- **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

- 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%
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)
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RESOURCE SPECIFIC VOCABULARY:
Math 7 Standards Glossary www.pdesas.org

Wallenpaupack Area School District Curriculum	
COURSE: Math 7	GRADE/S: 7
UNIT 6: Equations	TIMEFRAME: 3-5 weeks

- **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)
- 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 RESOURCE SPECIFIC VOCABULARY: Math 7 Standards Glossary www.pdesas.org

Wallenpaupack Area School District Curriculum	
COURSE: Math 7 COURSE: Math 7 COURSE: Math 7	GRADE/S: 7
UNIT 7: Inequalities	TIMEFRAME: 2-3 weeks

- **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

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 **RESOURCE SPECIFIC VOCABULARY:** Math 7 Standards Glossary www.pdesas.org

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

- **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

- 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
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
While boards
CAC CAC
May vary based on instructor, class, availability, updates
RESOURCE SPECIFIC VOCABULARY:
Math 7 Standards Glossary <u>www.pdesas.org</u>

	Wallennaunack Area S	chool District Curriculum
COURS	SE: Math 7	GRADE/S: 7
): Area, Surface Area, and Volume of	TIMEFRAME: 3-5 weeks
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78-		
PA CO	MMON CORE/NATIONAL STANDARDS:	
•	CC.2.1.7.E.1 Apply and extend previous und	derstandings of operations with fractions to
	operations with rational numbers.	
•	CC.2.2.7.B.1 Apply properties of operations	s to generate equivalent expressions.
•	CC.2.2.7.B.3 Model and solve real-world ar	nd mathematical problems by using and connecting
	numerical, algebraic, and/or graphical repre	esentations.
•	CC.2.3.7.A.1 Solve real-world and mathema	atical problems involving angle measure, area,
	surface area, circumference, and volume.	
•	CC.2.3.7.A.2 Visualize and represent geome	etric figures and describe the relationships between
	them.	
UNIT	DBJECTIVES (SWBATS):	
•	Learn how to classify geometric figures	
•	Identify parts of a circle	
•	Find perimeter, area, surface area, and volu	ime of various figures
INSTRU	UCTIONAL STRATEGIES/ACTIVITIES:	
•	Note taking	
•	Homework and practice	
•	Cooperative learning	
•	Peer interaction	
•	Modeling	
•	Active participation	
ANCHO	OR 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	
-		

ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative): Diagnostic • Unit 9 Pre-Test • CDTs Formative • Teacher observation • Unit quizzes • 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/S04 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	Volume
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) 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 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	ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):
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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	Coach Workbooks
White boards Projector/TV SAS May vary based on instructor, class, availability, updates RESOURCE SPECIFIC VOCABULARY: Math 7 Standards Glossary www.pdesas.org	Graph paper
Projector/TV SAS May vary based on instructor, class, availability, updates RESOURCE SPECIFIC VOCABULARY: Math 7 Standards Glossary www.pdesas.org	White boards
May vary based on instructor, class, availability, updates RESOURCE SPECIFIC VOCABULARY: Math 7 Standards Glossary <u>www.pdesas.org</u>	Projector/TV
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RESOURCE SPECIFIC VOCABULARY: Math 7 Standards Glossary www.pdesas.org	May vary based on instructor, class, availability, updates
Math 7 Standards Glossary <u>www.pdesas.org</u>	RESOURCE SPECIFIC VOCABULARY:
	Math 7 Standards Glossary <u>www.pdesas.org</u>

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

- 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

- 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):
 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, undates
RESOURCE SPECIFIC VOCABLILARY:
Math 7 Standards Glossary www.pdesas.org

Wallenpaupack Area School District Curriculum		
COURSE: Math 7	GRADE/S: 7	
UNIT 11: Linear Functions and Graphing	TIMEFRAME: 3-5 weeks	

- **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

- 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
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.):
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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 <u>www.pdesas.org</u>

Wallenpaupack Area School District Curriculum		
COURSE: Math 7	GRADE/S: 7	
UNIT 12: Multiplying and Dividing Expressions	TIMEFRAME: 1-2 weeks	
with Exponents		
PA COMMON CORE/NATIONAL STANDARDS:		
• CC 2 1 7 F 1. Apply and extend providus understandings of operations with fractions to		

- 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 guizzes
- 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 <u>www.pdesas.org</u>

Wallenpaupack Area School District Curriculum		
COURSE: Math 7	GRADE/S: 7	
UNIT 13: Measurement	TIMEFRAME: 1-2 weeks	

PA CO	MMON 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 C	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
INSTRU	JCTIONAL STRATEGIES/ACTIVITIES:
•	Note taking
•	Homework and practice
•	Cooperative learning
•	Peer interaction
•	Modeling
•	Active participation
ANCHO	DR VOCABULARY:
•	Dimensional analysis
•	Meter
•	Liter
•	Gram
•	Base Unit
•	Kilo-
•	Hecto-
•	Deka-
•	Deci-
•	Centi-
•	Milli-
ASSES	SMENTS (Diagnostic/Benchmark/Formative/Summative):
Diagno	ostic
•	Unit 13 Pre-Test
•	CDTs
Forma	tive
•	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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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

RESOURCE SPECIFIC VOCABULARY:

Math 7 Standards Glossary <u>www.pdesas.org</u>

Wallenpaupack Area School District Curriculum		
COURSE: Math 7	GRADE/S: 7	
UNIT 14: Right Angles in Algebra	TIMEFRAME: 2-3 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 identify an irrational numbers and estimate square roots to the nearest whole number
 How to find the missing measures of right triangle
How to use the Pythagorean Theorem
How to use the distance and midpoint formulas
How to use trigonometric functions
INSTRUCTIONAL STRATEGIES/ACTIVITIES:
Note taking
Homework and practice
Cooperative learning
Peer interaction
Modeling
Active participation
ANCHOR VOCABULARY:
Angle of elevation
Angle of depression
Irrational number
Square root
Perfect square
Trigonometry
Trigonometric ratio
• Sine
Cosine
Distance
Tangent
Hypotenuse
• Legs
Midpoint
ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):
Diagnostic
Unit 14 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.):

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May vary based on instructor, class, availability, updates

RESOURCE SPECIFIC VOCABULARY:

Math 7 Standards Glossary <u>www.pdesas.org</u>