

Pine Hill Public Schools Curriculum

Content Area:	Mathematics		
Course Title/ Grade Level:	HSPA Math/12		
Unit 1:	HSPA Prep for October Test	Month:	September
Unit 2:	AHSA Window #1 Prep	Month:	October, November, December
Unit 3:	AHSA Window #1	Month:	January
Unit 4:	HSPA Prep for March Test	Month:	February
Unit 5:	AHSA Window #2 Prep	Month:	March
Unit 6:	AHSA Window #2	Month:	March/April
Unit 7:	Camden County Placement Test Prep	Month:	May/June
Date Created or Revised:	May 2012		
BOE Approval Date:	8/28/12		

**Pine Hill Public Schools
Curriculum**

Unit Title: HSPA Preparation		Unit #: 1
Course or Grade Level: HSPA/12		Length of Time: 4 weeks
Date Created: 5/15/12		BOE Approval Date:
Pacing	Week 1 2001 HSPA – Part 1 Week 2 2001 HSPA – Part 2 Week 3 2001 HSPA – Part 3 Week 4 Open-Ended Questions	
Essential Questions	<ul style="list-style-type: none"> • What are the components of a successful open-ended question? • Do you have to memorize formulas for the HSPA? • How is the HSPA scored? 	
Content	<ul style="list-style-type: none"> • Number and Numerical Operations • Geometry and Measurement • Patterns and Algebra • Data Analysis, Probability, and Discrete Mathematics • Mathematical Processes 	
Skills	<ul style="list-style-type: none"> • Using mathematical operations to solve word problems. • Interpreting word problems. • Solving algebra problems involving fractions, decimals, and percents. • Interpreting graphs and charts. 	
Math Skills/ Science Processes	<ul style="list-style-type: none"> • Addition, subtraction, multiplication, and division of whole number, fractions, and decimals • Fraction, decimal, percent conversions • Evaluating formulas and equations • Completing patterns • Computing measures of central tendency 	
Assessments	<ul style="list-style-type: none"> • Anecdotal Records • Teacher Observation • Question & Answer • Practice HSPA 	
Interventions / differentiated instruction	<ul style="list-style-type: none"> • Whole group, small group, and individual instruction • Quality work over quantity work • After school tutorial 	
Inter-disciplinary Connections	<ul style="list-style-type: none"> • Math • Economics • Financial Literacy • English 	
Lesson resources / Activities	<ul style="list-style-type: none"> • SmartBoard • Teacher Generated Worksheets • Websites • NJ Department of Education website 	
Common Core State Standards		
Grade or Conceptual Category (HS only): HSPA Math		
Domain (name and #) All		
Cluster(s):	Standard #	

<u>21st Century Themes</u>							
	Global Awareness		Financial, Economic, Business, and Entrepreneurial Literacy		Civic Literacy		Health Literacy
<u>21st Century Skills</u>							
	Creativity and Innovation		Critical Thinking and Problem Solving		Communication and Collaboration		Information Literacy
	Media Literacy		ICT Literacy		Life and Career Skills		

**Pine Hill Public Schools
Curriculum**

Unit Title: AHSA Preparation Window #1		Unit #: 2
Course or Grade Level: HSPA/12		Length of Time: 10 weeks
Date Created: 5/15/12		BOE Approval Date:
Pacing	Week 1 Practice Task – Prom Expenses Week 2 Practice Task – Sand & Salt Storage Week 3 Practice Task – Counting Numbers Week 4 Practice Task – Math Test Week 5 Practice Task – Competitive Salaries Week 6 Practice Task – Rearranging Rectangles Week 7 Practice Task – Jose’s Cellular Phone Week 8 Practice Task – XYZ Technologies Week 9 Practice Task – Garden Center Week 10 Practice Task – Decorative Mirrors	
Essential Questions	<ul style="list-style-type: none"> • How do you find net pay? • What is slant height? • How do you find the equation of a line? • How do you find the interval where the median score lies? • How do you find the percent of increase? • How do you compare area and perimeter of rectangles? • How do you graph two linear equations on the same graph? • How do you use multiples and least common multiple to solve a problem? • How do you compare the area of different shapes? 	
Content	<ul style="list-style-type: none"> • Number and Numerical Operations • Geometry and Measurement • Patterns and Algebra • Data Analysis, Probability, and Discrete Mathematics • Mathematical Processes 	
Skills	<ul style="list-style-type: none"> • Using mathematical operations to solve word problems. • Interpreting word problems. • Solving algebra problems involving fractions, decimals, and percents. • Interpreting graphs and charts. 	
Math Skills/ Science Processes	<ul style="list-style-type: none"> • Addition, subtraction, multiplication, and division of whole number, fractions, and decimals • Fraction, decimal, percent conversions • Evaluating formulas and equations • Completing patterns • Computing measures of central tendency 	
Assessments	<ul style="list-style-type: none"> • Anecdotal Records • Teacher Observation • Question & Answer • Practice HSPA Open-Ended Questions 	
Interventions / differentiated instruction	<ul style="list-style-type: none"> • Whole group, small group, and individual instruction • Quality work over quantity work • After school tutorial 	
Inter-disciplinary Connections	<ul style="list-style-type: none"> • Math • Economics • Financial Literacy • English 	

Lesson resources / Activities	<ul style="list-style-type: none"> • SmartBoard • Teacher Generated Worksheets • Websites • NJ Department of Education website 						
Common Core State Standards							
Grade or Conceptual Category (HS only): HSPA Math							
Domain (name and #) All							
Cluster(s):				Standard #			
<u>21st Century Themes</u>							
	Global Awareness		Financial, Economic, Business, and Entrepreneurial Literacy		Civic Literacy		Health Literacy
<u>21st Century Skills</u>							
	Creativity and Innovation		Critical Thinking and Problem Solving		Communication and Collaboration		Information Literacy
	Media Literacy		ICT Literacy		Life and Career Skills		

**Pine Hill Public Schools
Curriculum**

Unit Title: AHSA Window #1		Unit #: 3
Course or Grade Level: HSPA/12		Length of Time: 3 weeks
Date Created: 5/15/12		BOE Approval Date:
Pacing	Week 1 – AHSA Performance Assessment Tasks 1, 2, 3 Week 2 – AHSA Performance Assessment Tasks 4, 5, 6 Week 3 – AHSA Performance Assessment Tasks 7, 8, 9, 10	
Essential Questions	<ul style="list-style-type: none"> • How many AHSA Performance Assessment Tasks does each student need to take? • How passing the AHSA satisfy my graduation requirement for the HSPA? 	
Content	<ul style="list-style-type: none"> • Number and Numerical Operations • Geometry and Measurement • Patterns and Algebra • Data Analysis, Probability, and Discrete Mathematics • Mathematical Processes 	
Skills	<ul style="list-style-type: none"> • Using mathematical operations to solve word problems. • Interpreting word problems. • Solving algebra problems involving fractions, decimals, and percents. • Interpreting graphs and charts. 	
Math Skills/ Science Processes	<ul style="list-style-type: none"> • Addition, subtraction, multiplication, and division of whole number, fractions, and decimals • Fraction, decimal, percent conversions • Evaluating formulas and equations • Completing patterns • Computing measures of central tendency 	
Assessments	<ul style="list-style-type: none"> • Anecdotal Records • Teacher Observation • Question & Answer • Successful Completion of the AHSA Performance Assessment Tasks 	
Interventions / differentiated instruction	<ul style="list-style-type: none"> • Whole group, small group, and individual instruction • Quality work over quantity work • After school tutorial 	
Inter-disciplinary Connections	<ul style="list-style-type: none"> • Math • Economics • Financial Literacy • English 	
Lesson resources / Activities	<ul style="list-style-type: none"> • SmartBoard • Teacher Generated Worksheets • Websites • NJ Department of Education website 	
Common Core State Standards		
Grade or Conceptual Category (HS only): HSPA Math		
Domain (name and #) All		
Cluster(s):	Standard #	

21st Century Themes

	Global Awareness		Financial, Economic, Business, and Entrepreneurial Literacy		Civic Literacy		Health Literacy
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21st Century Skills

	Creativity and Innovation		Critical Thinking and Problem Solving		Communication and Collaboration		Information Literacy
	Media Literacy		ICT Literacy		Life and Career Skills		

**Pine Hill Public Schools
Curriculum**

Unit Title: HSPA Preparation		Unit #: 5 weeks
Course or Grade Level: HSPA/12		Length of Time: 4 weeks
Date Created: 5/15/12		BOE Approval Date:
Pacing	Week 1 1992 HSPA – Part 1 Week 2 1992 HSPA – Part 2 Week 3 1991 HSPA – Form 1 Week 4 1991 HSPA – Form 2 Week 5 1991 HSPA – Form 3	
Essential Questions	<ul style="list-style-type: none"> • What are the components of a successful open-ended question? • Do you have to memorize formulas for the HSPA? • How is the HSPA scored? 	
Content	<ul style="list-style-type: none"> • Number and Numerical Operations • Geometry and Measurement • Patterns and Algebra • Data Analysis, Probability, and Discrete Mathematics • Mathematical Processes 	
Skills	<ul style="list-style-type: none"> • Using mathematical operations to solve word problems. • Interpreting word problems. • Solving algebra problems involving fractions, decimals, and percents. • Interpreting graphs and charts. 	
Math Skills/ Science Processes	<ul style="list-style-type: none"> • Addition, subtraction, multiplication, and division of whole number, fractions, and decimals • Fraction, decimal, percent conversions • Evaluating formulas and equations • Completing patterns • Computing measures of central tendency 	
Assessments	<ul style="list-style-type: none"> • Anecdotal Records • Teacher Observation • Question & Answer • Practice HSPA 	
Interventions / differentiated instruction	<ul style="list-style-type: none"> • Whole group, small group, and individual instruction • Quality work over quantity work • After school tutorial 	
Inter-disciplinary Connections	<ul style="list-style-type: none"> • Math • Economics • Financial Literacy • English 	
Lesson resources / Activities	<ul style="list-style-type: none"> • SmartBoard • Teacher Generated Worksheets • Websites • NJ Department of Education website 	
Common Core State Standards		
Grade or Conceptual Category (HS only): HSPA Math		
Domain (name and #) All		
Cluster(s):	Standard #	

<u>21st Century Themes</u>							
	Global Awareness		Financial, Economic, Business, and Entrepreneurial Literacy		Civic Literacy		Health Literacy
<u>21st Century Skills</u>							
	Creativity and Innovation		Critical Thinking and Problem Solving		Communication and Collaboration		Information Literacy
	Media Literacy		ICT Literacy		Life and Career Skills		

**Pine Hill Public Schools
Curriculum**

Unit Title: AHSA Preparation – Window #2 **Unit #: 5**

Course or Grade Level: HSPA/12 **Length of Time:** 1 week

Date Created: 5/15/12 **BOE Approval Date:**

Pacing Week 1 Review of Individual Deficiencies

Essential Questions

- How many Performance Assessment Tasks are you required to take?

Content

- Number and Numerical Operations
- Geometry and Measurement
- Patterns and Algebra
- Data Analysis, Probability, and Discrete Mathematics
- Mathematical Processes

Skills

- Using mathematical operations to solve word problems.
- Interpreting word problems.
- Solving algebra problems involving fractions, decimals, and percents.
- Interpreting graphs and charts.

Math Skills/ Science Processes

- Addition, subtraction, multiplication, and division of whole number, fractions, and decimals
- Fraction, decimal, percent conversions
- Evaluating formulas and equations
- Completing patterns
- Computing measures of central tendency

Assessments

- Anecdotal Records
- Teacher Observation
- Question & Answer
- Practice HSPA

Interventions / differentiated instruction

- Whole group, small group, and individual instruction
- Quality work over quantity work
- After school tutorial

Inter-disciplinary Connections

- Math
- Economics
- Financial Literacy
- English

Lesson resources / Activities

- SmartBoard
- Teacher Generated Worksheets
- Websites
- NJ Department of Education website

Common Core State Standards

Grade or Conceptual Category (HS only): HSPA Math

Domain (name and #) All

Cluster(s):	Standard #

[21st Century Themes](#)

Global Awareness	Financial, Economic,	Civic Literacy	Health Literacy
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			Business, and Entrepreneurial Literacy				
<u>21st Century Skills</u>							
	Creativity and Innovation		Critical Thinking and Problem Solving		Communication and Collaboration		Information Literacy
	Media Literacy		ICT Literacy		Life and Career Skills		

**Pine Hill Public Schools
Curriculum**

Unit Title: AHSA Window #2		Unit #: 6
Course or Grade Level: HSPA/12		Length of Time: 3 weeks
Date Created: 5/15/12		BOE Approval Date:
Pacing	Week 1 – AHSA Performance Assessment Tasks as needed Week 2 – AHSA Performance Assessment Tasks as needed Week 3 – AHSA Performance Assessment Tasks as needed	
Essential Questions	<ul style="list-style-type: none"> • How many AHSA Performance Assessment Tasks does each student need to take? • How passing the AHSA satisfy my graduation requirement for the HSPA? 	
Content	<ul style="list-style-type: none"> • Number and Numerical Operations • Geometry and Measurement • Patterns and Algebra • Data Analysis, Probability, and Discrete Mathematics • Mathematical Processes 	
Skills	<ul style="list-style-type: none"> • Using mathematical operations to solve word problems. • Interpreting word problems. • Solving algebra problems involving fractions, decimals, and percents. • Interpreting graphs and charts. 	
Math Skills/ Science Processes	<ul style="list-style-type: none"> • Addition, subtraction, multiplication, and division of whole number, fractions, and decimals • Fraction, decimal, percent conversions • Evaluating formulas and equations • Completing patterns • Computing measures of central tendency 	
Assessments	<ul style="list-style-type: none"> • Anecdotal Records • Teacher Observation • Question & Answer • Successful Completion of the AHSA Performance Assessment Tasks 	
Interventions / differentiated instruction	<ul style="list-style-type: none"> • Whole group, small group, and individual instruction • Quality work over quantity work • After school tutorial 	
Inter-disciplinary Connections	<ul style="list-style-type: none"> • Math • Economics • Financial Literacy • English 	
Lesson resources / Activities	<ul style="list-style-type: none"> • SmartBoard • Teacher Generated Worksheets • Websites • NJ Department of Education website 	
Common Core State Standards		
Grade or Conceptual Category (HS only): HSPA Math		
Domain (name and #) All		
Cluster(s):	Standard #	

21st Century Themes

	Global Awareness		Financial, Economic, Business, and Entrepreneurial Literacy		Civic Literacy		Health Literacy
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21st Century Skills

	Creativity and Innovation		Critical Thinking and Problem Solving		Communication and Collaboration		Information Literacy
	Media Literacy		ICT Literacy		Life and Career Skills		

**Pine Hill Public Schools
Curriculum**

Unit Title: Camden County College Placement Test Review		Unit #: 7
Course or Grade Level: HSPA/12		Length of Time: 9 weeks
Date Created: 5/18/12		BOE Approval Date:
Pacing	Weeks 1, and 2 – Unit 1 – Operations on Whole Numbers Weeks 3, 4, and 5 – Unit 2 – Operations on Fractions Weeks 6, and 7 – Operations on Decimals Weeks 8 and 9 – Ratio and Proportion	
Essential Questions	<ul style="list-style-type: none"> • How do you add and subtract whole numbers without the use of calculators? • When do you use common denominators? • How do you divide decimals without the use of calculators? • How do you solve problems using proportions? 	
Content	<ul style="list-style-type: none"> • Number and Numerical Operations 	
Skills	<ul style="list-style-type: none"> • Using mathematical operations to solve word problems. • Interpreting word problems. • Solving algebra problems involving fractions, decimals, and percents. 	
Math Skills/ Science Processes	<ul style="list-style-type: none"> • Addition, subtraction, multiplication, and division of whole number • Order of Operations • Powers and Multiples • Finding equivalent fractions • Mixed number, improper fraction conversions • Addition, subtraction, multiplication, and division of fractions • Fraction and decimal conversions • Rounding decimal numbers • Addition, subtraction, multiplication, and division of decimals. 	
Assessments	<ul style="list-style-type: none"> • Anecdotal Records • Teacher Observation • Question & Answer • Teacher Worksheets • Teacher Unit Tests 	
Interventions / differentiated instruction	<ul style="list-style-type: none"> • Whole group, small group, and individual instruction • Quality work over quantity work • After school tutorial 	
Inter-disciplinary Connections	<ul style="list-style-type: none"> • Math • Economics • Financial Literacy • English 	
Lesson resources / Activities	<ul style="list-style-type: none"> • SmartBoard • Teacher Generated Worksheets • Websites • NJ Department of Education website 	
Common Core State Standards		
Grade or Conceptual Category (HS only): HSPA Math		
Domain (name and #) The Real Number System – N-RN Quantities – N-Q		

Cluster(s):		Standard #	
Extend the properties of exponents to rational exponents		N-RN 1, 2	
Reason quantitatively and use units to solve problems		N-Q 1, 3	
<u>21st Century Themes</u>			
Global Awareness	Financial, Economic, Business, and Entrepreneurial Literacy	Civic Literacy	Health Literacy
<u>21st Century Skills</u>			
Creativity and Innovation	Critical Thinking and Problem Solving	Communication and Collaboration	Information Literacy
Media Literacy	ICT Literacy	Life and Career Skills	