

Northampton Area School District
 Year at a Glance
 Board Approval Date: August 27, 2018
 SAT MATH

Common Units of Study with Sample Lesson Topics	Textbook Chapter(s)	Estimated % of Course Time	Estimated Time	Big Idea (s)	PA Academic Standard(s)
<p>Quarter 1: Introduction to SAT Math, Prerequisite Skills & Calculator Usage, Heart of Algebra, and Problems Solving & Data Analysis</p> <ul style="list-style-type: none"> ❖ Introduction to the SAT Math <ul style="list-style-type: none"> ➤ Pre-Practice Exam ➤ SAT Scoring ➤ SAT Math question types ➤ Test-taking strategies ➤ Common testing myths ❖ PRE-WORK: Prerequisite Skills and Calculator Usage <ul style="list-style-type: none"> ➤ Efficiency tips to boost test day speed ➤ Distinguish when to utilize a calculator ➤ Utilize strategies to help start a question ➤ Identify how expert test takers utilize calculators ❖ UNIT ONE: Heart of Algebra <ul style="list-style-type: none"> ➤ Chapter 1: The Kaplan Method for Math & Linear Equations ➤ Chapter 2: Systems of Equations ❖ UNIT TWO: Problem Solving & Data Analysis <ul style="list-style-type: none"> ➤ Chapter 3: Introduction to Problem Solving ➤ Chapter 4: Scatterplots ➤ Chapter 5: Two-way Tables, Statistics, and Probability 	<p>Intro to SAT Math: Khan Academy pages v-xii</p> <p>Pre-Work: pages 1-14</p> <p>Unit 1: Chapter 1 Chapter 2</p> <p>Unit 2: Chapter 3 Chapter 4 Chapter 5</p>	<p>50%</p>	<p>40-45 days</p>	<ul style="list-style-type: none"> ❖ Mathematical relationships among numbers can be represented, compared, and communicated. ❖ Mathematical relationships can be represented as expressions, equations and inequalities in mathematical situations. ❖ Numerical quantities, calculations, and measurements can be estimated or analyzed by using appropriate strategies and tools. ❖ Numerical quantities, calculations, and measurements can be estimated or analyzed by using appropriate strategies and tools. ❖ Measurement attributes can be quantified, and estimated using customary and non-customary units of measure. ❖ Mathematical relations and functions can be modeled through multiple representations and analyzed to raise and answer questions. ❖ Data can be modeled and used to make inferences. 	<ul style="list-style-type: none"> ❖ CC.2.4.HS.B.1 ❖ CC.2.4.HS.B.2 ❖ CC.2.4.HS.B.3 ❖ CC.2.4.HS.B.4 ❖ CC.2.4.HS.B.5 ❖ CC.2.4.HS.B.7 ❖ CC.2.2.HS.C.1 ❖ CC.2.2.HS.C.2 ❖ CC.2.2.HS.C.3 ❖ CC.2.2.HS.C5 ❖ CC.2.2.HS.D7 ❖ CC.2.2.HS.D9 ❖ CC.2.1.HS.F.3 ❖ CC.2.1.HS.F.4 ❖ CC.2.1.HS.F.5

<p>Quarter 2: Passport to Advanced Math, Additional Topics in Math, Post-Practice Test</p> <ul style="list-style-type: none"> ❖ UNIT THREE: Passport to Advanced Math <ul style="list-style-type: none"> ➤ Chapter 6: Exponents, Radicals, Polynomials, and Rational Expressions ➤ Chapter 7: Functions & Function Notation ➤ Chapter 8: Quadratic Equations ❖ UNIT FOUR: Additional Topics in Math <ul style="list-style-type: none"> ➤ Chapter 9: Lines, Angles, and Triangles ❖ Post-Practice Tests <ul style="list-style-type: none"> ➤ Post-Practice Exam on Khan Academy ➤ Post-Practice Exams in book 	<p>Unit 3: Chapter 6 Chapter 7 Chapter 8</p> <p>Unit 4: Chapter 9</p> <p>Post-Practice Tests: Khan Academy pages 489-582</p>	<p>50%</p>	<p>40-45 days</p>	<ul style="list-style-type: none"> ❖ Mathematical relationships among numbers can be represented, compared, and communicated. ❖ Mathematical relationships can be represented as expressions, equations and inequalities in mathematical situations. ❖ Patterns exhibit relationships that can be extended, described, and generalized. ❖ Mathematical relations and functions can be modeled through multiple representations and analyzed to raise and answer questions. ❖ Data can be modeled and used to make inferences. ❖ Patterns exhibit relationships that can be extended, described, and generalized. ❖ Geometric relationships can be described, analyzed, and classified based on spatial reasoning and/or visualization. 	<ul style="list-style-type: none"> ❖ CC.2.2.HS.C.1 ❖ CC.2.2.HS.C.2 ❖ CC.2.2.HS.C.3 ❖ CC.2.2.HS.C.4 ❖ CC.2.2.HS.C.6 ❖ CC.2.2.HS.D.1 ❖ CC.2.2.HS.D.2 ❖ CC.2.2.HS.D.3 ❖ CC.2.2.HS.D.5 ❖ CC.2.2.HS.D.6 ❖ CC.2.3.HS.A.3 ❖ CC.2.3.HS.A.8 ❖ CC.2.3.HS.A.9 ❖ CC.2.3.HS.A.10 ❖ CC.2.3.HS.A.11 ❖ CC.2.3.HS.A.12 ❖ CC.2.3.HS.A.13 ❖ CC.2.3.HS.A.14
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