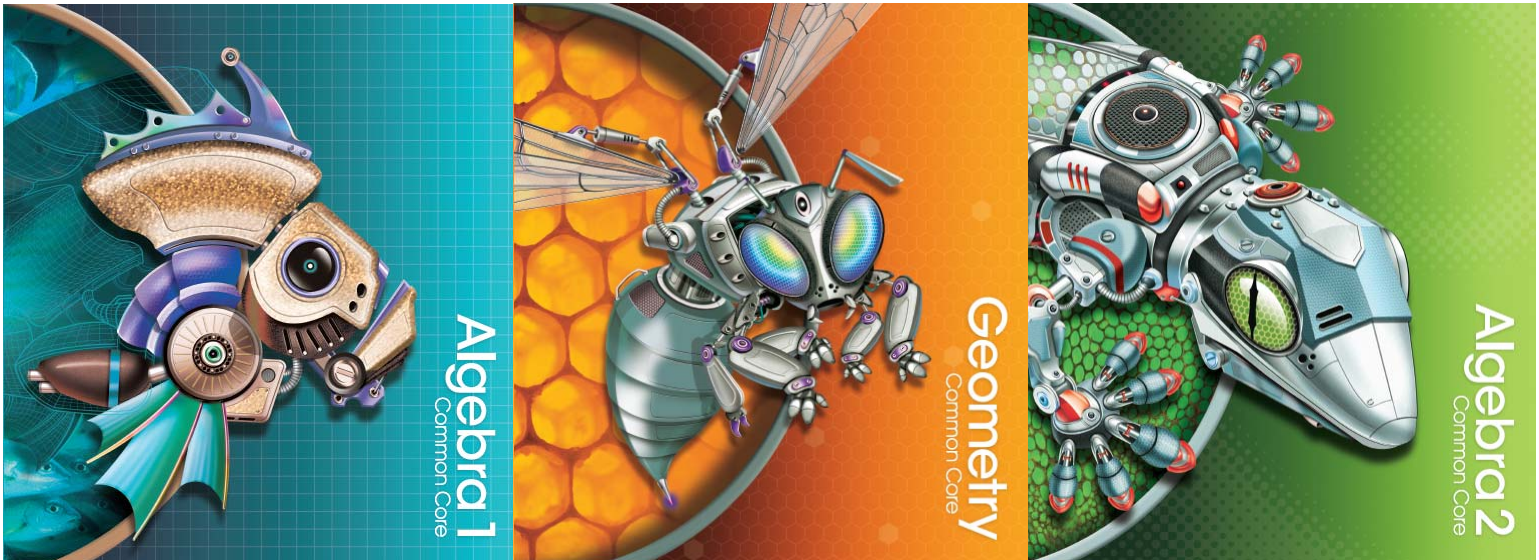


A Correlation of
Pearson
**Algebra 1, Geometry,
Algebra 2 Common Core**
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To the
**Pennsylvania Core Standards
for Mathematics 2014
High School**

A Correlation of Pearson Algebra 1, Geometry, Algebra 2 Common Core, ©2015 To the Pennsylvania Core Standards for Mathematics, High School

Introduction

This document demonstrates how *Pearson Algebra 1, Geometry, Algebra 2 Common Core Edition, ©2015* meets the standards of the Pennsylvania Core Standards for Mathematics - High School. Correlation references are to the pages of the Student and Teacher's Editions, Concept Bytes, and Learning Resources within the Teacher's Editions.

Pearson Algebra 1, Geometry, Algebra 2 Common Core Edition ©2015 is a rigorous, flexible, and data-driven high school math program designed to ensure high school students master the Common Core State Standards. The program's 5-step lesson design was built for the requirements of the Common Core, and independent research has proven the program's lesson design is effective for all learners.

Pearson Algebra 1, Geometry, Algebra 2 Common Core Edition ©2015 balances conceptual understanding, procedural fluency, and the application of mathematics to solve problems and formulate models. The lesson design of the program was built specifically to meet the "rigor" criterion of the Common Core State Standards.

- Each lesson begins with **Interactive Learning**, the *Solve It!*, which immediately engages students in their daily learning according to the Standards for Mathematical Practice.
- The second step of the lesson, **Guided Instruction**, uses visual learning principles and a Thinking/Reasoning strand (seen in the *Know/Need/Plan* and *Think/Plan/Write* boxes) to introduce the Essential Understanding of the lesson by teaching THROUGH and FOR problem-solving. **Interactive Learning** and **Guided Instruction** are both deliberately designed to address the essential elements in the Common Core conceptual category of mathematical modeling.
- In the third step of the lesson, the **Lesson Check**, *Do you know HOW?* exercises measure students' procedural fluency, while *Do you UNDERSTAND?* problems measure students' conceptual understanding.
- In the fourth step of the lesson, **Practice** problems are designed to develop students' fluency in the Content Standards and proficiency with the Mathematical Practices. Real-world STEM problems as well as problems designed to elicit the use of one or more of the Standards for Mathematical Practice are clearly labeled in the **Practice** step of the lesson.
- The final phase of the lesson, **Assess and Remediate**, features a Lesson Quiz to measure students' understanding of lesson concepts. By utilizing the balanced and proven-effective approach of Pearson's 5-step lesson design, you can teach the Common Core State Standards with confidence.

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<p align="center">Pennsylvania Core Standards for Mathematics, High School</p>	<p align="center">Pearson Algebra 1, Geometry, Algebra 2 Common Core, ©2015</p>
<p>2.1. Numbers and Operations</p>	
<p>(F) Number and Quantity</p>	
<p>CC.2.1.HS.F.1 Apply and extend the properties of exponents to solve problems with rational exponents. A1.1.1.1.1, A1.1.1.1.2, A1.1.1.3.1, A2.1.2.1.1, A2.1.2.1.2, A2.1.2.1.3, A2.1.2.1.4</p>	<p>Algebra 1 SE/TE: 418-423, CB 424, 425-431, CB 432, 433-438, 439-445, CB 447, 448-452 TE: 423A-423B, 431A-431B, 438A-438B, 445A-445B, 452A-452B</p> <p>Algebra 2 SE/TE: CB 225, CB 360, 381-388 TE: 388A-388B</p>
<p>CC.2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems. A1.1.1.1.1, A1.1.1.1.2, A1.1.1.3.1, A1.1.1.2.1</p>	<p>Algebra 1 SE/TE: 16-22, 23-28, 30-36, 38-44, CB 45 TE: 22A-22B, 28A-28B, 36A-36B, 44A-44B</p> <p>Algebra 2 SE/TE: 11-17 TE: 17A-17B</p>
<p>CC.2.1.HS.F.3 Apply quantitative reasoning to choose and interpret units and scales in formulas, graphs, and data displays. A1.1.2.1.1, A1.1.2.1.2, A1.1.2.1.3, A1.2.1.2.1, A1.2.1.2.2, A2.2.2.1.1, A2.2.2.1.2, A2.2.3.1.1, A2.2.3.1.2</p>	<p>Algebra 1 SE/TE: 116-121, CB 122, 124-129, 178-183, 253-259, 262-267, 301-306, 732-737, 738-744, 746-751 TE: 121A-121B, 129A-129B, 183A-183B, 259A-259B, 267A-267B, 306A-306B, 737A-737B, 744A-744B, 751A-751B</p> <p>Geometry SE/TE: 59-68 TE: 68A-68B</p>
<p>CC.2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multi-step problems. A1.1.2.1.1, A1.1.2.1.2, A1.1.2.1.3, A1.2.1.2.1, A1.2.1.2.2, A2.2.2.1.1, A2.2.2.1.2</p>	<p>Algebra 1 SE/TE: 116-121, CB 122, 124-129, 178-183, 253-259, 262-267, 301-306, 732-737, 738-744, 746-751 TE: 121A-121B, 129A-129B, 183A-183B, 259A-259B, 267A-267B, 306A-306B, 737A-737B, 744A-744B, 751A-751B</p> <p>Geometry SE/TE: 59-68 TE: 68A-68B</p>

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CC.2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. A1.1.2.1.1, A1.1.2.1.2, A1.1.2.1.3, A1.1.2.2.1, A1.1.2.2.2, A1.1.3.1.1, A1.1.3.1.2, A1.1.3.1.3, A1.1.3.2.1, A1.1.3.2.2, A2.2.3.1.1, A2.2.3.1.2	Algebra 1 SE/TE: 137-143, 144-150, 387-392 TE: 143A-143B, 150A-150B, 392A-392B
CC.2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers. A2.1.1.1.1, A2.1.1.1.2, A2.1.1.2.1, A2.1.1.2.2	Algebra 2 SE/TE: 248-255, CB 265 TE: 255A-255B
CC.2.1.HS.F.7 Apply concepts of complex numbers in polynomial identities and quadratic equations to solve problems. A2.2.1.1.1, A2.2.1.1.2, A2.2.1.1.3, A2.2.1.1.4	Algebra 2 SE/TE: 248-255, 312-317, 319-324 TE: 255A-255B, 317A-317B, 324A-324B
2.2. Algebraic Concepts	
(D) Algebra	
CC.2.2.HS.D.1 Interpret the structure of expressions to represent a quantity in terms of its context. A1.1.1.5.1, A1.1.1.5.2, A1.1.1.5.3, A2.1.2.2.1, A2.1.2.2.2	Algebra 1 SE/TE: 4-9, 10-15, 46-52, 207-213, 262-267, 274-281, 308-314, CB 511, 512-517, 518-522, 523-528, 529-533 TE: 9A-9B, 15A-15B, 52A-52B, 213A-213B, 267A-267B, 281A-281B, 314A-314B, 517A-517B, 522A-522B, 528A-528B Algebra 2 SE/TE: 18-24, 41-48, 216-223, 226-231, 280-287, 296-302, 361-366, 367-373, 374-380, 434-441, 442-450, 527-533 TE: 24A-24B, 48A-48B, 223A-223B, 231A-231B, 287A-287B, 302A-302B, 366A-366B, 373A-373B, 380A-380B, 441A-441B, 450A-450B, 533A-533B
CC.2.2.HS.D.2 Write expressions in equivalent forms to solve problems. A1.1.1.5.1, A1.1.1.5.2, A1.1.1.5.3, A2.1.2.1.1, A2.1.2.1.2, A2.1.2.1.3, A2.1.2.1.4, A2.1.2.2.1, A2.1.2.2.2	Algebra 1 SE/TE: 460-466, 568-572 TE: 466A-466B, 572A-572B Algebra 2 SE/TE: 4-10, 18-24, 226-231, 564-571, 580-586, CB 594, 595-601 TE: 10A-10B, 24A-24B, 231A-231B, 571A-571B, 586A-586B, 601A-601B

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<p align="center">Pennsylvania Core Standards for Mathematics, High School</p>	<p align="center">Pearson Algebra 1, Geometry, Algebra 2 Common Core, ©2015</p>
<p>CC.2.2.HS.D.3 Extend the knowledge of arithmetic operations and apply to polynomials. A1.1.1.5.1, A1.1.1.5.2, A1.1.1.5.3, A2.1.2.2.1, A2.1.2.2.2</p>	<p>Algebra 1 SE/TE: 486-491, 492-496, CB 497, 498-503, 504-509 TE: 491A-491B, 496A-496B, 503A-503B, 509A-509B</p> <p>Algebra 2 SE/TE: 303-310, 507-514 TE: 310A-310B, 514A-514B</p>
<p>CC.2.2.HS.D.4 Understand the relationship between zeros and factors of polynomials to make generalizations about functions and their graphs. A2.1.2.2.1, A2.1.2.2.2</p>	<p>Algebra 1 SE/TE: 561-566 TE: 566A-566B</p> <p>Algebra 2 SE/TE: 226-231, CB 256-257, 288-295, 303-310, 319-324, CB 325 TE: 231A-231B, 295A-295B, 310A-310B, 319A-319B, 324A-324B</p>
<p>CC.2.2.HS.D.5 Use polynomial identities to solve problems. A1.1.1.5.1, A1.1.1.5.2, A1.1.1.5.3, A2.1.2.2.1, A2.1.2.2.2, A2.1.3.1.1, A2.1.3.1.2, A2.1.3.1.3, A2.1.3.1.4</p>	<p>Algebra 2 SE/TE: CB 318, 326-330 TE: 330A-330B</p>
<p>CC.2.2.HS.D.6 Extend the knowledge of rational functions to rewrite in equivalent forms. A1.1.1.5.1, A1.1.1.5.2, A1.1.1.5.3, A2.1.3.1.1, A2.1.3.1.2, A2.1.3.1.3, A2.1.3.1.4</p>	<p>Algebra 1 SE/TE: 664-669, 670-676, CB 677, 678-683, 684-689 TE: 669A-669B, 676A-676B, 683A-683B, 689A-689B</p> <p>Algebra 2 SE/TE: 303-310, 534-541, 542-548 TE: 310A-310B, 541A-541B, 548A-548B</p>

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<p>CC.2.2.HS.D.7 Create and graph equations or inequalities to describe numbers or relationships. A1.1.2.1.1, A1.1.2.1.2, A1.1.2.1.3, A1.1.2.2.1, A1.1.2.2.2, A1.1.3.1.1, A1.1.3.1.2, A1.1.3.1.3, A1.1.3.2.1, A1.1.3.2.2, A2.1.3.1.1, A2.1.3.1.2, A2.1.3.1.3, A2.1.3.1.4, A2.1.3.2.1, A2.1.3.2.2, A2.2.2.1.1, A2.2.2.1.2, A2.2.2.1.3, A2.2.2.1.4</p>	<p>Algebra 1 SE/TE: CB 37, 53-58, 81-87, 88-93, 102-108, 130-136, 178-183, 262-267, 301-306, 322-328, 387-392, 460-466, 546-552, 639-644, 691-697 TE: 58A-58B, 87A-87B, 93A-93B, 108A-108B, 136A-136B, 183A-183B, 267A-267B, 306A-306B, 328A-328B, 392A-392B, 466A-466B, 552A-552B, 644A-644B, 697A-697B</p> <p>Geometry SE/TE: CB 323, CB439, CB 698</p> <p>Algebra 2 SE/TE: 26-32, 33-40, 41-48, 68-73, 74-80, 81-88, 92-98, 114-120, 134-141, 157-162, CB 163, 194-201, 258-264, 390-397, 434-441, 498-505 TE: 32A-32B, 40A-40B, 48A-48B, 73A-73B, 80A-80B, 88A-88B, 98A-98B, 120A-120B, 141A-141B, 162A-162B, 201A-201B, 264A-264B, 397A-397B, 441A-441B, 505A-505B</p>
<p>CC.2.2.HS.D.8 Apply inverse operations to solve equations or formulas for a given variable. A1.1.2.1.1, A1.1.2.1.2, A1.1.2.1.3, A2.1.3.1.1, A2.1.3.1.2, A2.1.3.1.3, A2.1.3.1.4, A2.1.3.2.1, A2.1.3.2.2</p>	<p>Algebra 1 SE/TE: 81-87, 88-93, 94-100, 102-108, 124-129, 130-136, 164-170, 171-177, 178-183, CB 185, 186-192, 561-566, CB 567, 568-572, 576-581, 582-588 TE: 87A-87B, 93A-93B, 100A-100B, 108A-108B, 129A-129B, 136A-136B, 170A-170B, 177A-177B, 183A-183B, 192A-192B, 566A-566B, 572A-572B, 581A-581B, 588A-588B</p> <p>Algebra 2 SE/TE: 233-234, 240-247 TE: 239A-239B, 247A-247B</p>

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<p>CC.2.2.HS.D.9 Use reasoning to solve equations and justify the solution method. A1.1.1.4.1, A1.1.2.1.1, A1.1.2.1.2, A1.1.2.1.3, A1.1.2.2.1, A1.1.2.2.2, A1.1.3.1.1, A1.1.3.1.2, A1.1.3.1.3, A2.1.3.1.1, A2.1.3.1.2, A2.1.3.1.3, A2.1.3.1.4, A2.1.3.2.1, A2.1.3.2.2</p>	<p>Algebra 1 SE/TE: CB 59, CB 80, 88-93, 94-100, CB 101, 102-108, 576-581, 619-625, 626-631, 633-638, 691-697 TE: 93A-93B, 100A-100B, 108A-108B, 581A-581B, 625A-625B, 631A-631B, 638A-638B, 697A-697B</p> <p>Algebra 2 SE/TE: 390-397 TE: 397A-397B</p>
<p>CC.2.2.HS.D.10 Represent, solve, and interpret equations/inequalities and systems of equations/inequalities algebraically and graphically. A1.1.2.1.1, A1.1.2.1.2, A1.1.2.1.3, A1.1.2.2.1, A1.1.2.2.2, A1.1.3.1.1, A1.1.3.1.2, A1.1.3.1.3, A1.1.3.2.1, A1.1.3.2.2, A2.1.3.1.1, A2.1.3.1.2, A2.1.3.1.3, A2.1.3.1.4</p>	<p>Algebra 1 SE/TE: 61-66, 240-245, 246-251, 253-259, CB 260-261, 364-369, CB 370, 372-377, 378-384, 387-392, 394-399, 400-405, CB 406, 596-601 TE: 66A-66B, 245A-245B, 251A-251B, 259A-259B, 369A-369B, 377A-377B, 384A-384B, 392A-392B, 399A-399B, 405A-405B, 601A-601B</p> <p>Geometry SE/TE: CB 257</p> <p>Algebra 2 SE/TE: 134-141, 142-148, 149-155, CB 164, 166-173, 174-181, 258-264, 296-302, 469-476, CB 484-485, 542-548, CB 549, CB 550-551, CB 661 TE: 141A-141B, 148A-148B, 155A-155B, 173A-173B, 181A-181B, 264A-264B, 302A-302B, 476A-476B, 548A-548B</p>

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<p>(C) Functions</p>	
<p>CC.2.2.HS.C.1 Use the concept and notation of functions to interpret and apply them in terms of their context. A1.2.1.1.1, A1.2.1.1.2, A1.2.1.1.3, A1.2.2.1.1, A1.2.2.1.2, A1.2.2.1.3, A1.2.2.1.4, A2.2.1.1.1, A2.2.1.1.2, A2.2.1.1.3, A2.2.1.1.4, G.2.2.2.1, G.2.2.2.2, G.2.2.2.3, G.2.2.2.4, G.2.2.2.5</p>	<p>Algebra 1 SE/TE: 234-239, 240-245, 246-251, 253-259, 268-273, 274-281, 294-300, 308-314, 322-328, 453-459, 546-552, 553-558, CB 559-560, 698-704, 705-712 TE: 239A-239B, 245A-245B, 251A-251B, 259A-259B, 273A-273B, 281A-281B, 300A-300B, 314A-314B, 328A-328B, 459A-459B, 552A-552B, 558A-558B, 704A-704B, 712A-712B</p> <p>Algebra 2 SE/TE: 60-67, 74-80, 81-88, 92-98, 194-201, 202-208, 209-214, CB 215, 331-338, 459-470, 572-577, 587-593, 828-834, 851-858 TE: 67A-67B, 80A-80B, 88A-88B, 98A-98B, 201A-201B, 208A-208B, 214A-214B, 338A-338B, 460A-460B, 577A-577B, 593A-593B, 834A-834B, 858A-858B</p>
<p>CC.2.2.HS.C.2 Graph and analyze functions and use their properties to make connections between the different representations. A1.2.1.1.1, A1.2.1.1.2, A1.2.1.1.3, A1.2.1.2.1, A1.2.1.2.2, A1.2.2.1.1, A2.1.3.1.4, A2.1.3.2.1, A2.1.3.2.2, A2.2.1.1.1, A2.2.1.1.2, A2.2.1.1.3, A2.2.1.1.4</p>	<p>Algebra 1 SE/TE: 308-314, 315-320, 322-328, 346-350, CB 351, 453-459, 460-466, 546-552, 553-558, CB 567, 568-572, 639-644 TE: 314A-314B, 320A-320B, 328A-328B, 350A-350B, 459A-459B, 466A-466B, 552A-552B, 558A-558B, 572A-572B, 644A-644B</p> <p>Algebra 2 SE/TE: 81-88, CB 90-91, 114-120, 202-208, 280-287, 288-295, 339-345, 434-441, 442-450, CB 477, CB 506, 515-523, 653-660, 851-858, 883-890 TE: 88A-88B, 120A-120B, 208A-208B, 287A-287B, 295A-295B, 345A-345B, 441A-441B, 450A-450B, 523A-523B, 660A-660B, 858A-858B, 890A-890B</p>

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<p>CC.2.2.HS.C.3 Write functions or sequences that model relationships between two quantities. A1.1.2.1.1, A1.1.2.1.2, A1.1.2.1.3, A1.2.1.1.1, A1.2.1.1.2, A1.2.1.1.3, A1.2.1.2.1, A1.2.1.2.2, A1.2.2.1.3, A1.2.2.1.4, A2.1.3.1.1, A2.1.3.1.2, A2.1.3.1.3, A2.1.3.1.4, A2.1.3.2.1, A2.1.3.2.2, A2.2.1.1.1, A2.2.1.1.2, A2.2.1.1.3, A2.2.1.1.4, A2.2.2.1.1, A2.2.2.1.2, A2.2.2.1.3, A2.2.2.1.4</p>	<p>Algebra 1 SE/TE: 274-281, 467-472 TE: 281A-281B, 472A-472B</p> <p>Algebra 2 SE/TE: 68-73, 398-404, 515-523 TE: 73A-73B, 404A-404B, 523A-523B</p>
<p>CC.2.2.HS.C.4 Interpret the effects transformations have on functions and find the inverses of functions. A1.2.1.2.1, A1.2.1.2.2, A2.1.3.1.3, A2.1.3.1.4, A2.1.3.2.1, A2.2.2.1.1, A2.2.2.1.2, A2.2.2.1.3, A2.2.2.1.4, A2.2.2.2.1</p>	<p>Algebra 1 SE/TE: CB 307, CB 329, 346-350, 546-552 TE: 350A-350B, 552A-552B</p> <p>Algebra 2 SE/TE: 99-106, 107-113, 194-201, 339-345, 405-412, CB 413, 442-450, 507-514 TE: 106A-106B, 113A-113B, 201A-201B, 345A-345B, 412A-412B, 450A-450B, 514A-514B</p>
<p>CC.2.2.HS.C.5 Construct and compare linear, quadratic, and exponential models to solve problems. A1.2.2.1.1, A1.2.2.1.2, A1.2.2.1.3, A1.2.2.1.4, A2.1.3.1.1, A2.1.3.1.2, A2.1.3.1.3, A2.1.3.1.4, A2.2.1.1.1, A2.2.1.1.2, A2.2.1.1.3, A2.2.1.1.4, A2.2.2.1.1, A2.2.2.1.2, A2.2.2.1.3, A2.2.2.1.4, A2.2.2.2.1</p>	<p>Algebra 1 SE/TE: 274-281, 294-300, 308-314, 315-320, 322-328, 460-466, 467-472, CB 559-560, 589-594 TE: 281A-281B, 300A-300B, 314A-314B, 320A-320B, 328A-328B, 466A-466B, 472A-472B, 594A-594B</p> <p>Algebra 2 SE/TE: 462-468, 469-476, 478-483 TE: 468A-468B, 476A-476B, 483A-483B</p>
<p>CC.2.2.HS.C.6 Interpret functions in terms of the situations they model. A1.2.1.2.1, A1.2.2.1.2, A1.2.2.1.3, A1.2.2.2.1, A2.1.3.1.3, A2.2.1.1.1, A2.2.1.1.2, A2.2.1.1.3, A2.2.1.1.4, A2.2.2.1.3, A2.2.2.1.4, A2.2.2.2.1</p>	<p>Algebra 1 SE/TE: 315-320, 322-328, 460-466 TE: 320A-320B, 328A-328B, 466A-466B</p> <p>Algebra 2 SE/TE: 74-80, 81-88 TE: 80A-80B, 88A-88B</p>
<p>CC.2.2.HS.C.7 Apply radian measure of an angle and the unit circle to analyze the trigonometric functions.</p>	<p>Algebra 2 SE/TE: 836-842, CB 843, 844-850, 851-858, 861-867, 868-874 TE: 842A-842B, 850A-850B, 858A-858B, 867A-867B, 874A-874B</p>

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CC.2.2.HS.C.8 Choose trigonometric functions to model periodic phenomena and describe the properties of the graphs.	Algebra 2 SE/TE: 851-858, CB 860, 861-867, 868-874, 875-882, 911-918 TE: 858A-858B, 867A-867B, 874A-874B, 882A-882B, 918A-918B
CC.2.2.HS.C.9 Prove the Pythagorean identity and use it to calculate trigonometric ratios. G.1.3.2.1, G.2.1.1.1, G.2.1.1.2	Algebra 2 SE/TE: 904-910, 943-950, 951-957 TE: 910A-910B, 950A-950B, 957A-957B
2.3. Geometry	
(A) Geometry	
CC.2.3.HS.A.1 Use geometric figures and their properties to represent transformations in the plane. G.1.3.1.1, G.1.3.1.2	Geometry SE/TE: 4-10, 11-19, 20-26, 27-33, 34-40, 140-146, CB 170, CB 179-180, CB 544, 545-560, 561-567, CB 568, 587-593, 649-657 TE: 10A-10B, 19A-19B, 26A-26B, 33A-33B, 40A-40B, 146A-146B, 552A-552B, 560A-560B, 567A-567B, 593A-593B, 657A-657B Algebra 2 SE/TE: 801-808 TE: 808A-808B
CC.2.3.HS.A.2 Apply rigid transformations to determine and explain congruence. G.1.3.1.1, G.1.3.1.2	Geometry SE/TE: 545-552, 554-560, 561-567, 570-576, 578-585 TE: 553A-552B, 560A-560B, 567A-567B, 576A-576B, 585A-585B
CC.2.3.HS.A.3 Verify and apply geometric theorems as they relate to geometric figures. G.1.2.1.1, G.1.2.1.2, G.1.2.1.3, G.1.2.1.4, G.1.2.1.5, G.1.3.2.1, G.2.2.1.1, G.2.2.1.2, G.2.2.2.1, G.2.2.2.2, G.2.2.2.3, G.2.2.2.4, G.2.2.2.5	Geometry SE/TE: 82-88, 98-104, 106-112, 120-127, 140-146, 148-155, 156-163, 171-178, 250-256, 285-291, 292-299, 317-322, 324-331, 359-366, 367-374, 375-382 TE: 88A-88B, 104A-104B, 112A-112B, 127A-127B, 146A-146B, 155A-155B, 163A-163B, 178A-178B, 256A-256B, 291A-291B, 299A-299B, 322A-322B, 331A-331B, 366A-366B, 374A-374B, 382A-382B
CC.2.3.HS.A.4 Apply the concept of congruence to create geometric constructions.	Geometry SE/TE: CB 42, 43-48, CB 49, CB 147, 182-188, 244-248, CB 249, 250-256, 285-291, CB 413, CB 470, 629-634 TE: 48A-48B, 188A-188B, 248A-248B, 256A-256B, 291A-291B, 634A-634B

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CC.2.3.HS.A.5 Create justifications based on transformations to establish similarity of plane figures. G.1.3.1.1, G.1.3.1.2	Geometry SE/TE: CB 586, 587-593, 594-600 TE: 593A-593B, 600A-600B
CC.2.3.HS.A.6 Verify and apply theorems involving similarity as they relate to plane figures. G.1.3.1.1, G.1.3.1.2, G.1.3.2.1	Geometry SE/TE: 218-224, 226-233, 244-248, 250-256, 258-264, 265-271, 285-291, 292-299, 309-315, 353-358, 367-374, 375-382, 432-438, 440-447, 491-498 TE: 224A-224B, 233A-233B, 248A-248B, 256A-256B, 264A-264B, 271A-271B, 291A-291B, 299A-299B, 315A-315B, 358A-358B, 374A-374B, 382A-382B, 438A-438B, 447A-447B, 498A-498B
CC.2.3.HS.A.7 Apply trigonometric ratios to solve problems involving right triangles. G.2.1.1.1, G.2.1.1.2	Algebra 1 SE/TE: 614-618, 645-651 TE: 618A-618B, 651A-651B Geometry SE/TE: 491-498, 499-505, CB 506, 507-513, CB 514-515 TE: 498A-498B, 505A-505B, 513A-513B Algebra 2 SE/TE: CB 835, 919-926 TE: 926A-926B
CC.2.3.HS.A.8 Apply geometric theorems to verify properties of circles. G.1.1.1.1, G.1.1.1.2, G.1.1.1.3, G.1.1.1.4, G.1.3.2.1, G.2.2.3.1	Geometry SE/TE: CB 300, 301-307, 649-657, 762-769, CB 770, 771-779, 780-787, CB 789, 790-797 TE: 307A-307B, 657A-657B, 769A-769B, 779A-779B, 787A-787B, 797A-797B
CC.2.3.HS.A.9 Extend the concept of similarity to determine arc lengths and areas of sectors of circles. G.1.1.1.1, G.1.1.1.2, G.1.1.1.3, G.1.1.1.4, G.2.2.2.1, G.2.2.2.2, G.2.2.2.3, G.2.2.2.4, G.2.2.2.5, G.2.2.3.1	Geometry SE/TE: 649-657, CB 658, 660-666 TE: 657A-657B, 666A-666B

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CC.2.3.HS.A.10 Translate between the geometric description and the equation for a conic section. A2.2.1.1.4, A2.2.2.1.1	<p>Geometry SE/TE: 798-803, CB 804-805 TE: 803A-803B</p> <p>Algebra 2 SE/TE: 614-620, 622-629, 630-636, 653-660 TE: 620A-620B, 629A-629B, 636A-636B, 660A-660B</p>
CC.2.3.HS.A.11 Apply coordinate geometry to prove simple geometric theorems algebraically. G.2.1.2.1, G.2.1.2.2, G.2.1.2.3	<p>Algebra 1 SE/TE: 330-335 TE: 335A-335B</p> <p>Geometry SE/TE: 20-26, 50-56, CB 57, 189-196, 197-204, 400-405, 406-412, 414-418, 450-458, 460-467, 616-622, CB 667 TE: 26A-26B, 56A-56B, 196A-196B, 204A-204B, 405A-405B, 412A-412B, 418A-418B, 458A-458B, 467A-467B, 622A-622B</p>
CC.2.3.HS.A.12 Explain volume formulas and use them to solve problems. G.2.3.1.1, G.2.3.1.2, G.2.3.1.3	<p>Geometry SE/TE: CB 614, 635-641, CB 659, 717-724, CB 725, 726-732, 733-740 TE: 641A-641B, 724A-724B, 732A-732B, 740A-740B</p>
CC.2.3.HS.A.13 Analyze relationships between two-dimensional and three-dimensional objects. G.1.1.1.1, G.1.1.1.2, G.1.1.1.3, G.1.1.1.4, G.1.2.1.1, G.1.2.1.2, G.1.2.1.3, G.1.2.1.4, G.1.2.1.5, G.2.3.2.1	<p>Geometry SE/TE: 688-695, CB 696-697, 806-811 TE: 695A-695B, 811A-811B</p>
CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems. G.2.2.4.1, G.2.3.1.1, G.2.3.1.2, G.2.3.1.3	<p>Geometry SE/TE: CB 58, CB 68, 164-169, 507-513, 616-622, 623-628, 629-634, 699-707, 708-715, 717-724, 726-732, 733-740, CB 741, 742-749 TE: 169A-169B, 513A-513B, 622A-622B, 628A-628B, 634A-634B, 707A-707B, 715A-715B, 724A-724B, 732A-732B, 740A-740B, 749A-749B</p>

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2.4 Measurement, Data, and Probability	
(B) Statistics and Probability	
CC.2.4.HS.B.1 Summarize, represent, and interpret data on a single count or measurement variable. A1.2.2.1.2, A1.2.3.1.1, A1.2.3.2.1, A1.2.3.2.2, A1.2.3.2.3,	<p>Algebra 1 SE/TE: 769-774 TE: 774A-774B</p> <p>Geometry SE/TE: 668-674, 824-829, 830-835, 850-855, 856-861 TE: 674A-674B, 829A-829B, 835A-835B, 855A-855B, 861A-861B</p> <p>Algebra 2 SE/TE: 688-693, 696-702 TE: 693A-693B, 702A-702B</p>
CC.2.4.HS.B.2 Summarize, represent, and interpret data on two categorical and quantitative variables. A1.2.1.1.1, A1.2.1.1.2, A1.2.1.1.3, A1.2.1.2.1, A1.2.1.2.2, A1.2.2.2.1, A2.2.1.1.1, A2.2.3.1.1, A2.2.3.1.2	<p>Algebra 1 SE/TE: 762-768, 776-782 TE: 768A-768B, 782A-782B</p> <p>Geometry SE/TE: 836-842, 844-849, 856-861 TE: 842A-842B, 849A-849B, 861A-861B</p> <p>Algebra 2 SE/TE: 674-680, 688-693, 696-702, 731-738 TE: 680A-680B, 693A-693B, 702A-702B, 738A-738B</p>
CC.2.4.HS.B.3 Analyze linear models to make interpretations based on the data. A1.2.2.2.1, A1.2.3.1.1, A1.2.3.2.1, A1.2.3.2.2, A1.2.3.2.3, A2.2.3.1.1, A2.2.3.1.2	<p>Geometry SE/TE: 862-867, CB 868 TE: 867A-867B</p> <p>Algebra 2 SE/TE: 703-709, 711-718 TE: 709A-709B, 718A-718B</p>
CC.2.4.HS.B.4 Recognize and evaluate random processes underlying statistical experiments. A1.2.3.3.1, A2.2.3.2.1, A2.2.3.2.2, A2.2.3.2.3	<p>Algebra 2 SE/TE: 681-687, CB 694-695, 725-730 TE: 687A-687B, 730A-730B</p>

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<p>CC.2.4.HS.B.5 Make inferences and justify conclusions based on sample surveys, experiments, and observational studies. A1.2.3.2.1, A1.2.3.2.2, A1.2.3.2.3, A2.2.3.2.1, A2.2.3.2.2, A2.2.3.2.3</p>	<p>Algebra 1 SE/TE: CB 752, 753-759, CB 775 TE: 759A-759B</p> <p>Algebra 2 SE/TE: 719-724, 725-730, CB 746-747, CB 748-749 TE: 724A-724B, 730A-730B</p>
<p>CC.2.4.HS.B.6 Use the concepts of independence and conditional probability to interpret data. A2.2.3.2.1, A2.2.3.2.2, A2.2.3.2.3</p>	<p>Algebra 1 SE/TE: 769-774 TE: 774A-774B</p> <p>Geometry SE/TE: 668-674, 824-829, 830-835, 850-855, 856-861 TE: 674A-674B, 829A-829B, 835A-835B, 855A-855B, 861A-861B</p> <p>Algebra 2 SE/TE: 688-693, 696-702 TE: 693A-693B, 702A-702B</p>
<p>CC.2.4.HS.B.7 Apply the rules of probability to compute probabilities of compound events in a uniform probability model. A1.2.3.3.1, A2.2.3.2.1, A2.2.3.2.2, A2.2.3.2.3</p>	<p>Algebra 1 SE/TE: 762-768, 776-782 TE: 768A-768B, 782A-782B</p> <p>Geometry SE/TE: 836-842, 844-849, 856-861 TE: 842A-842B, 849A-849B, 861A-861B</p> <p>Algebra 2 SE/TE: 674-680, 688-693, 696-702, 731-738 TE: 680A-680B, 693A-693B, 702A-702B, 738A-738B</p>