

BIG IDEAS Geometry Textbook to Curriculum Map Alignment for CC Geometry

High School Geometry – Unit 1

Develop the ideas of congruence through constructions and transformations

Critical Area: In this Unit the notion of two-dimensional shapes as part of a generic plane (the Euclidean Plane) and exploration of transformations of this plane as a way to determine whether two shapes are congruent or similar are formalized. Students use transformations to prove geometric theorems. The definition of congruence in terms of rigid motions provides a broad understanding of this notion, and students explore the consequences of this definition in terms of congruence criteria and proofs of geometric theorems. Students develop the ideas of congruence and similarity through transformations.

CLUSTERS	COMMON CORE STATE STANDARDS	Big Ideas Geometry	Resources
<p>Make geometric construction <i>Make a variety of formal geometric constructions using a variety of tools.</i></p>	<p>Geometry - Congruence G.CO.12 Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software etc. Copying a segment, copying an angle; bisecting a segment; bisecting an angle; constructing perpendicular lines including the perpendicular bisector of a line segment; and constructing a line parallel to a give line through a point not on the line.</p> <p>G.CO.13 Construct an equilateral triangle, a square, a regular hexagon inscribed in a circle.</p>	<p>1.2 Measuring and Constructing Segment 1.3 Using Midpoint and Distance Formulas 1.5 Measuring and Constructing Angles 3.3 Proofs with Parallel Lines (p. 139 construction) 3.4 Proofs with Perpendicular Lines (p.149 construction) 4.4 Congruence and Transformation 6.2 Bisectors of Triangles 10.1 Lines and Segments the Intersect Circles</p> <p>1.5 Measuring and Constructing segments 3.4 Proofs with Perpendicular Lines 5.4 Equilateral and Isosceles Triangles 10.4 Inscribed Angles and Polygons</p> <p>Seek supplemental resources p.557 Construction</p>	<p>Materials: For Students: compass, protractor, straight-edge, string, reflective devices, tracing paper, graph paper and geometric software.</p> <p>For instruction: Document camera, LCD projector, screen</p> <p>Tulare County Office of Education Hands-On Strategies for Transformational Geometry</p> <p>Websites: <u>Math Open Reference</u> http://mathopenref.com/tocs/constructionstoc.html (online resource that illustrates how to generate constructions)</p> <p>Math is Fun http://www.mathsisfun.com/geometry/constructions.html H-G.CO.12, 13</p> <p><u>Engage New York</u> Geometry-Module 1 pg 7 – 37</p> <p>Illustrative Mathematics</p>

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<p>Experiment with transformations in the plane</p> <p><i>Develop precise definitions of geometric figures based on the undefined notions of point, line, distance along a line and distance around a circular arc.</i></p> <p><i>Experiment with transformations in the plane.</i></p>	<p>Geometry - Congruence</p> <p>G.CO.1 Know precise definitions of angle, circle, perpendicular lines, parallel lines, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.</p> <p>G.CO.2 Represent transformations in the plane using e.g. transparencies and geometry software; describe transformations as functions that take points in the plane as inputs and give other points as outputs. Compare transformations that preserve distance and angle to those that do not (e.g. translation versus horizontal stretch.)</p> <p>G.CO.3 Given a rectangle, parallelogram, trapezoid, or regular polygon, describe the rotations and reflections that carry it onto itself.</p> <p>G.CO.4 Develop definitions of rotations, reflections, and translations in terms of angles, circles perpendicular lines, parallel lines, and line segments.</p>	<p>1.1 Points, Lines, and Planes 1.2 Measuring and Constructing Segments 1.3 Using Midpoint and Distance Formulas 1.5 Measuring and Constructing Angles 1.6 Describing Pairs of Angles 2.5 Proving Statements about Segments and Angles 2.6 Proving Geometric Relationships 3.1 Pairs of Lines and Angles 10.1 Lines and Segments That Intersect Circles 11.1 Circumference and Arc Length</p> <p>4.1 Translations 4.2 Reflections 4.3 Rotations 4.5 Dilations</p> <p>4.2 Reflections 4.3 Rotations</p> <p>4.1 Translations 4.2 Reflections 4.3 Rotations</p>	<p>Make Formal Constructions More Constructions</p> <p>Interactive http://www.shodor.org/interactivate/activities/Transmographer/</p> <p>Illustrative Mathematics Fixed Points of rigid Motion Dilations and Distances Horizontal Stretch of Plane</p> <p>Mars Tasks: Aaron’s Designs Possible Triangle Constructions Transforming 2D Figures</p> <p>Mathematics Vision Project: Module 6: Congruence, Constructions and Proof</p> <p>Module 5: Geometric Figures</p> <p>Illustrations Security Camera Placement Placing a Fire Hydrant Pizza Delivery Regions Perplexing Parallelograms</p> <p>California Mathematics Project Transformational Geometry</p> <p>Teaching Channel Collaborative Work with Transformations</p>

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	<p>G.CO.5 Given a geometric figure and a rotation, reflection or translation, draw the transformed figure using e.g. graph paper, tracing paper, or geometry software. Specify a sequence of transformations that will carry a given figure onto another.</p>	<p>4.1 Translations 4.2 Reflections 4.3 Rotations 4.4 Congruence and Transformations 4.6 Similarity and Transformations 5.3 Proving Triangle Congruence by SAS 5.5 Proving Triangle Congruence by SSS 5.6 Proving Triangle Congruence by ASA and AAS</p>	
<p>Understand congruence in terms of rigid motions</p> <p><i>Use rigid motion to map corresponding parts of congruent triangle onto each other.</i></p> <p><i>Explain triangle congruence in terms of rigid motions.</i></p>	<p>Geometry - Congruence</p> <p>G.CO.6 Use geometric descriptions of rigid motions to transform figures and to predict the effect of a given rigid motion on a given figure; given two figures, use the definition of congruence in terms of rigid motions to decide if they are congruent.</p> <p>G.CO.7 Use definition of congruence in terms of rigid motions to show that two triangles are congruent if and only if corresponding pairs of sides and corresponding pairs of angles are congruent.</p> <p>G.CO.8 Explain how the criteria for triangle congruence (ASA, SAS, and SSS) follow the definition of congruence in terms of rigid motions.</p>	<p>Reflect on Background Knowledge</p> <p>4.1 Translations 4.2 Reflections 4.3 Rotations 4.4 Congruence and Transformations</p> <p>5.2 Congruent Polygons</p> <p>5.3 Proving Triangle Congruence by SAS 5.5 Proving Triangle Congruence by SSS 5.6 Proving Triangle Congruence by ASA and AAS</p>	<p>Illustrative Mathematics Understand Congruence in terms of Rigid Motion</p> <p>Is this a rectangle?</p> <p>Illuminations Triangle Classification</p> <p>Teaching Channel Formative Assessment: Understanding Congruence</p>
<p>Prove geometric theorems Prove theorems about lines and angles,</p>	<p>Geometry - Congruence G.CO.9 Prove theorems about lines</p>	<p>2.5 2.6</p>	<p>Illustrative Mathematics https://www.illustrativemathematics.org</p>

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<p>triangles; and parallelograms.</p>	<p>and angles. Theorems include: vertical angles are congruent; when a transversal crosses parallel lines, alternate interior angles are congruent and corresponding angles are congruent; points on a perpendicular bisector of a line segment are exactly those equidistant from the segment's endpoints.</p> <p>G.CO.10 Prove theorems about triangles. Theorems include: measures of interior angles of a triangle sum to 180°; base angles of isosceles triangles are congruent; the segment joining midpoints of two sides of a triangle is parallel to the third side and half the length; the medians of a triangle meet at a point.</p> <p>G.CO.11 Prove theorems about parallelograms. Theorems include: opposite sides are congruent, opposite angles are congruent; the diagonals of a parallelogram bisect each other, and conversely, rectangles are parallelograms with congruent diagonals.</p>	<p>3.2 Parallel Lines and Transversals 3.3 Proofs with Parallel Lines 3.4 Proofs with Perpendicular Lines 4.1 Translations 6.1 Perpendicular and Angle Bisectors</p> <p>5.1 Angles of Triangles 5.4 Equilateral and Isosceles Triangle 6.2 Bisectors of Triangles 6.3 Medians and Altitudes of Triangles 6.4 The Triangle Midsegment Theorem 6.5 Indirect Proof and Inequalities in One Triangles (Paul and Oksana include task p.346) 6.6 Inequalities in Two Triangles</p> <p>7.2 Properties of Parallelograms 7.3 Proving that a Quadrilateral is a Parallelogram 7.4 Properties of Special Parallelograms</p>	<p>g/content-standards/HSG/CO/B</p> <p>Mars Task: Evaluating Statements About Length and Area</p> <p>Illustrations: Perplexing Parallelograms</p>

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Geometry – UNIT 2

Similarity, Right Triangles, and Trigonometry

Critical Area: Students investigate triangles and decide when they are similar. A more precise mathematical definition of similarity is given; the new definition taken for two objects being similar is that there is a sequence of similarity transformations that maps one exactly onto the other. Students explore the consequences of two triangles being similar: that they have congruent angles and that their side lengths are in the same proportion. Students prove the Pythagorean Theorem using triangle similarity.

CLUSTERS	COMMON CORE STATE STANDARDS	Big Ideas Geometry	Resources
<p>Understand similarity in terms of similarity transformations</p>	<p>Geometry - Similarity, Right Triangles, and Trigonometry G-SRT.1. Verify experimentally the properties of dilations given by a center and a scale factor: a. A dilation takes a line not passing through the center of the dilation to a parallel line, and leaves a line passing through the center unchanged. b. The dilation of a line segment is longer or shorter in the ratio given by the scale factor. G-SRT.2. Given two figures, use the definition of similarity in terms of similarity transformations to decide if they are similar; explain using similarity transformations the meaning of similarity for triangles as the equality of all corresponding pairs of angles and the proportionality of all corresponding pairs of sides. G-SRT.3. Use the properties of similarity transformations to establish the Angle-Angle (AA) criterion for two triangles to be similar.</p>	<p>4.5 Dilations</p> <p>4.6 Similarity and Transformations 8.1 Similar Polygons</p> <p>8.2 Proving Triangle Similarity by AA</p>	<p>Mars Tasks : Hopwell Geometry – G.SRT.5 Inscribing and Circumscribing Right Triangles – G.SRT: Analyzing Congruence Proofs</p> <p>CPALMS Dilation Transformation</p> <p>Illustrative Mathematics Similar Triangles : G-SRT.3 Pythagorean Theorem : G-SRT.4 Joining two midpoints of sides of a triangle : G-SRT.4</p> <p>Teaching Channel : Challenging Students to Discover Pythagoras How tall is the Flagpole Mathematics Vision Project Module 6 : Similarity and Right Triangle Trigonometry</p>
<p>Prove theorems involving similarity</p>	<p>Geometry - Similarity, Right Triangles, and Trigonometry</p>	<p>9.3 Similar Right Triangles</p>	<p>Khan Academy https://www.khanacademy.org/math/g</p>

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<p>Apply geometric concepts in modeling situations</p>	<p>G-SRT.4. Prove theorems about triangles. Theorems include: a line parallel to one side of a triangle divides the other two proportionally, and conversely; the Pythagorean Theorem proved using triangle similarity.</p> <p>G-SRT.5. Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures</p> <p>Supporting clusters: G-MG 1-3: Modeling with Geometry: Apply geometric concepts in modeling situations</p>	<p>8.3 Proving Triangle Similarity by SSS and SAS 8.4 Proportionality Theorems 9.1 The Pythagorean Theorem</p> <p>5.7 Using Congruent Triangles 7.2 Properties of Parallelograms 7.3 Proving That a Quadrilateral is a Parallelogram 7.4 Properties of Special Parallelograms 7.5 Properties of Trapezoids and Kites 8.2 Proving Triangle Similarity by AA 8.3 Proving Triangle Similarity by SSS and SAS 9.3 Similar Right Triangles</p> <p>11.1 Circumference and Arc Length 11.2 Areas of Circles and Sectors 11.5 Volumes of Prisms and Cylinders 11.6 Volumes of Pyramids 11.7 Surface Areas and Volumes of Cones 11.8 Surface Areas and Volumes of Spheres</p>	<p>eometry/right_triangles_topic/pythagorean_proofs/e/pythagorean-theorem-proofs</p> <p>Math is Fun http://www.mathsisfun.com/geometry/pythagorean-theorem-proof.html</p> <p>NCTM Illuminations Understanding the Pythagorean Relationship</p> <p>Mars Task: Solving Geometry Problems: Floodlights Proofs of Pythagorean Theorem The Pythagorean Theorem: Square Areas Finding Shortest Routes: The Schoolyard Problem</p> <p>Modeling Task: Mars Task: Estimating: Counting Trees</p> <p>Inside Mathematics William’s Polygon</p>
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High School Geometry – Unit 3

Express Geometric Properties with Equations; Extend Similarity to Circles

Critical Area: Students investigate triangles and decide when they are similar; with this newfound knowledge and their prior understanding of proportional relationships, they define trigonometric ratios and solve problems using right triangles. They investigate circles and prove theorems about them. Connecting to their prior experience with the coordinate plane, they prove geometric theorems using coordinates and describe shapes with equations. Students extend their knowledge of area and volume formulas to those for circles, cylinders and other rounded shapes. They prove theorems, both with and without the use of coordinates.

CLUSTERS	COMMON CORE STATE STANDARDS	Big Ideas Geometry	Resources
<p>Use coordinates to prove simple geometric theorems algebraically</p>	<p>Geometry - Expressing Geometric Properties with Equations G.GPE.4. Use coordinates to prove simple geometric theorems algebraically. <i>For example, prove or disprove that a figure defined by four given points in the coordinate plane is a rectangle; prove or disprove that the point $(1, \sqrt{3})$ lies on the circle centered at the origin and containing the point $(0, 2)$.</i> G.GPE.5. Prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems (e.g., find the equation of a line parallel or perpendicular to a given line that passes through a given point). G.GPE.6. Find the point on a directed line segment between two given points that partitions the segment in a given ratio. G.GPE.7. Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, e.g., using the distance formula. ★</p>	<p>5.8 Coordinate Proofs 10.7 Circles in the Coordinate Plane</p> <p>3.5 Equations of Parallel and Perpendicular Lines 8.3 Proving Triangle Similarity by SSS and SAS</p> <p>3.5 Equations of Parallel and Perpendicular Lines 8.4 Proportionality Theorems</p> <p>1.4 Perimeter and Area in the Coordinate Plane</p>	<p>Materials:</p> <ul style="list-style-type: none"> • Compass, straight-edge, graph paper, reflective surface, protractor, tracing paper, scissors, tape. • Geometer’s Sketchpad or other software. Geogebra Software <p>Mathematics Vision Project Module 7: Connecting Algebra and Geometry</p> <p>Mars Task: Finding Equations of Parallel and Perpendicular Lines</p>
<p>Understand and apply theorems about circles</p>	<p>Geometry - Circles G.C.1. Prove that all circles are</p>	<p>10.2 Finding Arc Measures</p>	<p>Illustrative Mathematics Right triangles inscribed in circles II:</p>

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<p>Find arc lengths and areas of sectors of circles</p>	<p>similar. G.C.2. Identify and describe relationships among inscribed angles, radii, and chords. <i>Include the relationship between central, inscribed, and circumscribed angles; inscribed angles on a diameter are right angles; the radius of a circle is perpendicular to the tangent where the radius intersects the circle.</i> G.C.3. Construct the inscribed and circumscribed circles of a triangle, and prove properties of angles for a quadrilateral inscribed in a circle. G.C.5. Derive using similarity the fact that the length of the arc intercepted by an angle is proportional to the radius, and define the radian measure of the angle as the constant of proportionality; derive the formula for the area of a sector. Convert between degrees and radians. CA</p>	<p>10.1 Lines and segments That Intersect Circles 10.2 Finding Arc Measures 10.3 Using Chords 10.4 Inscribed Angles and Polygons 10.5 Angle Relationships in Circles 10.6 Segment Relationships in Circles 6.2 Bisectors of Triangles 10.4 Inscribed Angles and Polygons 11.1 Circumference and Arc Length 11.2 Areas of Circles and Sectors</p>	<p>G.C.2a Inscribing a triangle in a circle : G.C.3a Two Wheels and a Belt : G.C. B Equal Area Triangles on the Same Base II : G.GPE.5b Mars Tasks: Sectors of Circles Inside Mathematics: What's My Angle?</p>
<p>Translate between the geometric description and the equation for a conic section</p>	<p>Geometry - Expressing Geometric Properties with Equations G.GPE.1. Derive the equation of a circle of given center and radius using the Pythagorean Theorem; complete the square to find the center and radius of a circle given by an equation. G.GPE.2. Derive the equation of a parabola given a focus and directrix.</p>	<p>10.7 Circles in the Coordinate Plane</p>	<p>Illustrative Mathematics Explaining the equation for a Circle Slopes and Circles Defining Parabolas Geometrically Mars Task: Equations of Circles 1 Equations of Circles 2</p>

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High School Geometry – UNIT 4

Trigonometry; Measurement and Dimensions; Statistics and Probability

Critical Area: Students explore probability concepts and use probability in real-world situations. They continue their development of statistics and probability, students investigate probability concepts in precise terms, including the independence of events and conditional probability. They explore right triangle trigonometry, and circles and parabolas. Throughout the course, Mathematical Practice 3, “Construct viable arguments and critique the reasoning of others,” plays a predominant role. Students advance their knowledge of right triangle trigonometry by applying trigonometric ratios in non-right triangles.

CLUSTERS	COMMON CORE STATE STANDARDS	Big Ideas Geometry	Resources
Define trigonometric ratios and solve problems involving right triangles.	<p>Geometry - Similarity, Right Triangles, and Trigonometry G.SRT.6 Understand that by similarity, side ratios in right triangles are properties of the angles in the triangle, leading to definitions of trigonometric ratios for acute angles.</p> <p>G.SRT.7 Explain and use the relationship between the sine and cosine of complementary angles.</p> <p>G.SRT.8 Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.</p> <p>G.SRT.8.1 Derive and use the trigonometric ratios for special right triangles ($30^\circ, 60^\circ, 90^\circ$ and $45^\circ, 45^\circ, 90^\circ$). CA</p>	<p>9.4 The Tangent Ratio 9.5 The Sine and Cosine Ratios</p> <p>9.5 The Sine and Cosine Ratios</p> <p>9.1 The Pythagorean Theorem 9.4 The Tangent Ratio 9.5 The Sine and Cosine Ratios 9.6 Solving Right Triangles</p>	<p>Illustrative Mathematics Defining Trigonometric Ratios: G.SRT.6 Sine and Cosine of Complementary Angles: G.SRT.7 Shortest line segment from a point P to a line L: G.SRT.8</p> <p>Mars Task: Modeling Rolling Cups</p> <p>Inside Mathematics: Circular Reasoning</p>
Explain volume formulas and use them to solve problems	<p>Geometric Measurement and Dimension G.GMD.1 Give an informal argument for the formulas for the circumference</p>	<p>11.1 Circumference and Arc Length 11.2 Areas of Circles and Sectors 11.3 Areas of Polygons 11.4 Three-Dimensional Figures</p>	<p>Illustrative Mathematics Doctor's Appointment: G.GMD.3 Centerpiece: G.GMD.3</p>

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<p>Visualize relationships between two-dimensional and three-dimensional objects.</p>	<p>of a circle, area of a circle, volume of a cylinder, pyramid, and cone. <i>Use dissection arguments, Cavalieri's principle, and informal limit arguments.</i></p> <p>G.GMD.3 Use volume formulas for cylinders, pyramids, cones, and spheres to solve problems.</p> <p>G.GMD.4 Identify the shapes of two-dimensional cross-sections of three-dimensional objects, and identify three-dimensional objects generated by rotations of two-dimensional objects.</p> <p>G.GMD.5 Know that the effect of a scale factor k greater than zero on length, area, and volume is to multiply each by k, k^2, and k^3, respectively; determine length, area and volume measures using scale factors. CA</p> <p>G.GMD.6 Verify experimentally that in a triangle, angles opposite longer sides are larger, sides opposite larger angles are longer, and the sum of any two side lengths is greater than the remaining side length; apply these relationships to solve real-world and mathematical problems. CA</p>	<p>11.5 Volumes of Prisms and Cylinders (includes Cavalieri's principle) 11.6 Volumes of Pyramids 11.8 Surface Areas and Volumes of Spheres</p> <p>Student Journal p.184 Section 6.5 Exploration</p> <p>11.4 Three-Dimensional Figures</p>	<p>Area of a circle: G.GMD.1 Global Positioning System: G.GMD.4, A.CED.2 Circumference of a Circle Volume formulas for Cylinder and prisms Illustrations Trigonometry for Solving Problems</p> <p>Mathematics Vision Project: Circles a Geometric Perspective</p> <p>Mars Task: Evaluating Statements About Enlargements (2D & 3D) 2D Representations of 3D Objects Calculating Volume of Compound Objects Modeling: Making Matchsticks Estimating and Sampling: Jellybeans</p>
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<p>Understand independence and conditional probability and use them to interpret data (Link to data from simulations or experiments.)</p>	<p>Statistics and Probability - Conditional Probability and the Rules of Probability</p> <p>S.CP.1 Describe events as subsets of a sample space (the set of outcomes) using characteristics (or categories) of the outcomes, or as unions, intersections, or complements of other events (“or,” “and,” “not”).</p> <p>S.CP.2 Understand that two events A and B are independent if the probability of A and B occurring together is the product of their probabilities, and use this characterization to determine if they are independent.</p> <p>S.CP.3 Understand the conditional probability of A given B as $P(A \text{ and } B)/P(B)$, and interpret independence of A and B as saying that the conditional probability of A given B is the same as the probability of A, and the conditional probability of B given A is the same as the probability of B. □</p> <p>S.CP.4 Construct and interpret two-way frequency tables of data</p>	<p align="center">n/a</p>	<p>Illustrative Mathematics</p> <p>Statistics and Probability- Conditional Probability and the rules of Probability</p> <p>Rain and Lightning:S.CP.2,3,5, and 7</p> <p>Lucky Envelopes: S.CP.3</p> <p>Random Walk: S.CP.9</p> <p>Mathematics Vision Project:</p> <p>Module 9: Probability</p> <p>Mars Task:</p> <p>Probability Games</p> <p>Modeling Conditional Probabilities 1: Lucky Dip</p> <p>Georgia Standards:</p> <p>Unit 7: Applications on Probability</p> <p>Inside Mathematics:</p> <p>Friends You Can Count On</p> <p>Got Your Number</p>
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	<p>when two categories are associated with each object being classified. Use the two-way table as a sample space to decide if events are independent and to approximate conditional probabilities. <i>For example, collect data from a random sample of students in your school on their favorite subject among math, science, and English. Estimate the probability that a randomly selected student from your school will favor science given that the student is in tenth grade. Do the same for other subjects and compare the results.</i> □</p> <p>S.CP.5 Recognize and explain the concepts of conditional probability and independence in everyday language and everyday situations.</p>		
<p>Use the rules of probability to compute probabilities of compound events in a uniform probability model</p>	<p>Statistics and Probability - Conditional Probability and the Rules of Probability</p> <p>S.CP.6 Find the conditional probability of A given B as the fraction of B's outcomes that also belong to A, and interpret</p>		

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	<p>the answer in terms of the model.</p> <p>S.CP.7 Apply the Addition Rule, $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$, and interpret the answer in terms of the model.</p> <p>S.CP.8 (+) Apply the general Multiplication Rule in a uniform probability model, $P(A \text{ and } B) = P(A)P(B A) = P(B)P(A B)$, and interpret the answer in terms of the model.</p> <p>S.CP.9 (+) Use permutations and combinations to compute probabilities of compound events and solve problems.</p>		<p>Inside Mathematics:</p> <p>Rod Trains</p>
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