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BENCHMARK CODE	BENCHMARK	LESSONS WHERE STANDARD/BENCHMARK IS DIRECTLY ADDRESSED IN MAJOR TOOL (MOST IN-DEPTH COVERAGE LISTED FIRST) (Include the student edition and teacher edition with the page numbers of lesson, a link to lesson, or other identifier for easy lookup by reviewers.)
ELD.K12.ELL.MA.1	English language learners communicate information, ideas and concepts necessary for academic success in the content area of Mathematics.	Geometry > Glossary > Select a word > Spanish https://app.discoveryeducation.com/glossary/math/courseGuid/CDA824AF-1452-4479-BF94-C65765635450/#view=term&guid=3C65F30B-B5CF-4160-8E4B-5B758C2BA4B3&title=%C3%A1ngulo%20agudo
ELD.K12.ELL.MA.1	English language learners communicate information, ideas and concepts necessary for academic success in the content area of Mathematics.	Geometric Transformations > Explore Transformations > Engage > Flip Books https://app.discoveryeducation.com/learn/player/9d93bbe1-a205-41be-b7d3-326171e8e87a

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ELD.K12.ELL.MA.1	English language learners communicate information, ideas and concepts necessary for academic success in the content area of Mathematics.	Similarity > Explore Similarity and Dilation > Discover > Investigate > Investigation 1 > Calculations https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/caeff25c-8d28-4b59-bccc-3f68b46612c0/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9c41c311-1d51-41d6-ab4b-619e071360dd
ELD.K12.ELL.SI.1	English language learners communicate for social and instructional purposes within the school setting.	Intersecting Lines > Prove Theorems about Lines and Angles > Discover > Investigate > Investigation 2 > Corresponding Angle Theorem https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/e142055e-26cc-4b0a-8d71-b641a5dda568/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e7addf39-901d-4e32-8209-10dbef68d9e5
ELD.K12.ELL.SI.1	English language learners communicate for social and instructional purposes within the school setting.	Triangle Geometry > Prove Congruence Theorems > Discover > Investigate > Investigation 2 > SAS Triangle Congruence https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/f0e73cac-0929-465a-abd2-c9991edf3ea9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d433ccac-f916-45aa-a300-a6fe97df6004
ELD.K12.ELL.SI.1	English language learners communicate for social and instructional purposes within the school setting.	Similarity > Prove Similarity Theorems > Discover > Investigate > Investigation 1 > Match It! https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/546b3c65-ecce-4726-9991-195be87e0bbc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/deee914b-48e2-42dc-b9c1-d9dda59f15ff

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LAFS.910.RST.1.3	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.	Triangle Geometry > Construct Special Triangles and Angles > Discover > Investigate > Investigation 2 > Copy an Angle https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/5e2baae7-9c25-4ad2-8140-95c9c40e99f4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b14af5e8-c631-4c0e-b53e-f4c2b5186f29
LAFS.910.RST.1.3	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.	Triangle Geometry > Construct Special Triangles and Angles > Discover > Investigate > Investigation 4 > Construct an Angle Bisector https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/5e2baae7-9c25-4ad2-8140-95c9c40e99f4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/05818b25-e9b2-4c3b-96c1-5e0e30121011
LAFS.910.RST.1.3	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.	Triangle Geometry > Construct Special Triangles and Angles > Discover > Investigate > Extension > Wheel of Theodorus https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/5e2baae7-9c25-4ad2-8140-95c9c40e99f4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/59429b11-7787-4029-bccc-9176baf009e8
LAFS.910.RST.2.4	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 9–10 texts and topics.	Foundations of Geometry > Explore Building Blocks of Geometry > Discover > Investigate > Investigation 4 > Terms to Research https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/7adacf06-b05e-4e8c-bc89-2bbe0641ddd1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/0b6e50dd-94fb-4ccb-9cb6-562598090703

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LAFS.910.RST.2.4	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 9–10 texts and topics.	Geometry > Glossary https://app.discoveryeducation.com/glossary/math/courseGuid/cda824af-1452-4479-bf94-c65765635450/#view=home&guid=cda824af-1452-4479-bf94-c65765635450&title=
LAFS.910.RST.2.4	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 9–10 texts and topics.	Foundations of Geometry > Explore Building Blocks of Geometry > Summarize https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/7adacf06-b05e-4e8c-bc89-2bbe0641ddd1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/028ef7cb-268c-4b5b-a312-59b2a95dbc26
LAFS.910.RST.3.7	Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.	Foundations of Geometry > Explore Measurements > Discover > Investigate > Investigation 1 > Whiteboard https://app.discoveryeducation.com/core:tools/index/toolname/Whiteboard#Whiteboard/asset/810c5240-d1ca-4f7a-8abd-21bb782aa7cf
LAFS.910.RST.3.7	Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.	Triangle Geometry > Construct Special Triangles and Angles > Discover > Investigate > Investigation 3 > Construct a Perpendicular https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/5e2baae7-9c25-4ad2-8140-95c9c40e99f4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4e4619e3-32ac-4a30-80ed-bf09aa60f9e4
LAFS.910.RST.3.7	Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.	Similarity > Prove Similarity Theorems > Discover > Investigate > Extension 2 > Geometric Mean https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/546b3c65-ec9c-4726-9991-195be87e0bbc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5fdc2212-da02-4b60-8f65-845a90ab3ba4

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LAFS.910.SL.1.1.a	Come to discussions prepared, having read and researched material under study; explicitly draw on that preparation by referring to evidence from texts and other research on the topic or issue to stimulate a thoughtful, well-reasoned exchange of ideas.	Foundations of Geometry > Explore Building Blocks of Geometry > Discover > Investigate > Extension 2 > Puzzle 1 Clues https://app.discoveryeducation.com/core:tools/index/toolname/Whiteboard#Whiteboard/asset/d7427049-1ff9-4870-bdad-6daeb3f0cd20
LAFS.910.SL.1.1.a	Come to discussions prepared, having read and researched material under study; explicitly draw on that preparation by referring to evidence from texts and other research on the topic or issue to stimulate a thoughtful, well-reasoned exchange of ideas.	Foundations of Geometry > Explore Congruence Constructions in the Coordinate Plane > Discover > Investigate > Investigation 2 > Teacher's Choice https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/a314e217-df97-43ff-b179-54c7757555c3/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/317e1d7d-af90-49e4-9330-526fa4a83001
LAFS.910.SL.1.1.a	Come to discussions prepared, having read and researched material under study; explicitly draw on that preparation by referring to evidence from texts and other research on the topic or issue to stimulate a thoughtful, well-reasoned exchange of ideas.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 1 > Discuss With a Partner https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8c0cf815-b667-4ece-8134-3471e13faa3a
LAFS.910.SL.1.1.b	Work with peers to set rules for collegial discussions and decision-making (e.g., informal consensus, taking votes on key issues, presentation of alternate views), clear goals and deadlines, and individual roles as needed.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 5 > Discuss With a Partner https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6776f401-8473-4979-b54a-277dc744b0f7

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LAFS.910.SL.1.1.b	Work with peers to set rules for collegial discussions and decision-making (e.g., informal consensus, taking votes on key issues, presentation of alternate views), clear goals and deadlines, and individual roles as needed.	Similarity > Prove Similarity Theorem > Discover > Investigate > Investigation 2 > Conclusions https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/546b3c65-ecce-4726-9991-195be87e0bbc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8b9140e8-9501-4382-8159-a2036eff244a
LAFS.910.SL.1.1.b	Work with peers to set rules for collegial discussions and decision-making (e.g., informal consensus, taking votes on key issues, presentation of alternate views), clear goals and deadlines, and individual roles as needed.	Trigonometry > Investigate Laws of Sines and Cosines > Discover > Investigate > Investigation 2 > Partner Challenge https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/eb4370ba-ab4c-470e-8162-fb06625d26c8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6c3d3ea4-2b79-4316-81fc-4ed61c86de17
LAFS.910.SL.1.1.c	Propel conversations by posing and responding to questions that relate the current discussion to broader themes or larger ideas; actively incorporate others into the discussion; and clarify, verify, or challenge ideas and conclusions.	Foundations of Geometry > Explore Building Blocks of Geometry > Discover > Investigate > Investigation 4 > Theorems on Triangles: Additional Evidence https://app.discoveryeducation.com/learn/player/64fb177d-a060-49e5-b934-dcaded8e7627
LAFS.910.SL.1.1.c	Propel conversations by posing and responding to questions that relate the current discussion to broader themes or larger ideas; actively incorporate others into the discussion; and clarify, verify, or challenge ideas and conclusions.	Foundations of Geometry > Explore Building Blocks of Geometry > Discover > Investigate > Extension 1 > Each row of solar panels represents a plane... https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/7adacf06-b05e-4e8c-bc89-2bbe0641ddd1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/456e74de-f785-4e4a-a521-4596957ed858

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LAFS.910.SL.1.1.c	Propel conversations by posing and responding to questions that relate the current discussion to broader themes or larger ideas; actively incorporate others into the discussion; and clarify, verify, or challenge ideas and conclusions.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 5 > Define Symmetry Types https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6776f401-8473-4979-b54a-277dc744b0f7
LAFS.910.SL.1.1.d	Respond thoughtfully to diverse perspectives, summarize points of agreement and disagreement, and, when warranted, qualify or justify their own views and understanding and make new connections in light of the evidence and reasoning presented.	Foundations of Geometry > Explore Measurements > Discover > Investigate > Investigation 2 > Comparisons https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/2d4d389b-c9b7-46cf-86ef-89e6879a8091/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/bf7a9b76-04d4-4af5-9097-32e001e55bba
LAFS.910.SL.1.1.d	Respond thoughtfully to diverse perspectives, summarize points of agreement and disagreement, and, when warranted, qualify or justify their own views and understanding and make new connections in light of the evidence and reasoning presented.	Intersecting Lines > Explore Parallel and Perpendicular Lines > Discover > Investigate > Extension > Make a Conjecture https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/ec4e23e1-4f89-43e5-99ae-2b9eaa937c6d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/479459fb-7da1-443a-bce1-d263c29933de
LAFS.910.SL.1.1.d	Respond thoughtfully to diverse perspectives, summarize points of agreement and disagreement, and, when warranted, qualify or justify their own views and understanding and make new connections in light of the evidence and reasoning presented.	Similarity > Prove Similarity Theorems > Discover > Investigate > Extension 1 > Critique a Proof Plan https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/546b3c65-ecce-4726-9991-195be87e0bbc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7e2fc29f-7066-4cd5-a22b-be243a3aee8d

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LAFS.910.SL.1.2	Integrate multiple sources of information presented in diverse media or formats (e.g., visually, quantitatively, orally) evaluating the credibility and accuracy of each source.	Foundations of Geometry > Explore Congruence Constructions in the Coordinate Plane > Discover > Investigate > Investigation 1 > Constructions https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/a314e217-df97-43ff-b179-54c7757555c3/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7149decc-7905-4ac5-ab56-c93ffde43d75
LAFS.910.SL.1.2	Integrate multiple sources of information presented in diverse media or formats (e.g., visually, quantitatively, orally) evaluating the credibility and accuracy of each source.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 2 > Compare Construction Methods https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/12925bd5-4bc8-428c-8d8d-4144fc6fc136
LAFS.910.SL.1.2	Integrate multiple sources of information presented in diverse media or formats (e.g., visually, quantitatively, orally) evaluating the credibility and accuracy of each source.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 3 > Interpret https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e6458f56-452d-4b90-9f8e-2c53ff5b7329
LAFS.910.SL.1.3	Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, identifying any fallacious reasoning or exaggerated or distorted evidence.	Intersecting Lines > Prove Theorems about Lines and Angles > Discover > Investigate > Investigation 4 > Fix the error https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/e142055e-26cc-4b0a-8d71-b641a5dda568/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1fa479b3-8e28-405d-b705-2a9f0556f61e

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LAFS.910.SL.1.3	Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, identifying any fallacious reasoning or exaggerated or distorted evidence.	Foundations of Geometry > Explore Congruence Constructions in the Coordinate Plane > Discover > Investigate > Extension > Will This Always Work? https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/a314e217-df97-43ff-b179-54c7757555c3/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e1cbaab2-f758-44af-9658-8f469331c3cf
LAFS.910.SL.1.3	Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, identifying any fallacious reasoning or exaggerated or distorted evidence.	Triangle Geometry > Construct Special Triangles and Angles > Discover > Investigate > Investigation 1 > Is the Triangle Equilateral? https://app.discoveryeducation.com/core:tools/index/toolname/Construction#Construction/asset/93c9f784-eee4-49d2-b046-9ba43808c47d
LAFS.910.SL.2.4	Present information, findings, and supporting evidence clearly, concisely, and logically such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose, audience, and task.	Foundations of Geometry > Explore Congruence Constructions in the Coordinate Plane > Discover > Investigate > Investigation 2 > Defend a Claim https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/a314e217-df97-43ff-b179-54c7757555c3/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/317e1d7d-af90-49e4-9330-526fa4a83001
LAFS.910.SL.2.4	Present information, findings, and supporting evidence clearly, concisely, and logically such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose, audience, and task.	Foundations of Geometry > Explore Congruence Constructions in the Coordinate Plane > Discover > Investigate > Investigation 3 > Check Perpendicularity https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/a314e217-df97-43ff-b179-54c7757555c3/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/61d71218-4bc4-426f-97f4-afccc6509639

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LAFS.910.SL.2.4	Present information, findings, and supporting evidence clearly, concisely, and logically such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose, audience, and task.	Geometric Transformations > Explore Transformations > Discover > Investigate > Extension 2 > Analyze the Reflections Across Pairs of Lines https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/18b272e0-6be9-45d7-ae7-7f010906f8c7
LAFS.910.WHST.1.1.a	Introduce precise claim(s), distinguish the claim(s) from alternate or opposing claims, and create an organization that establishes clear relationships among the claim(s), counterclaims, reasons, and evidence.	Foundations of Geometry > Explore the Building Blocks of Geometry > Discover > Investigate > Investigation 3 > Explore the Angle Addition Postulate https://app.discoveryeducation.com/core:tools/index/toolname/Geometry#Geometry/asset/d6667d90-f63f-42e8-8103-1db5349afd92
LAFS.910.WHST.1.1.a	Introduce precise claim(s), distinguish the claim(s) from alternate or opposing claims, and create an organization that establishes clear relationships among the claim(s), counterclaims, reasons, and evidence.	Geometric Transformations > Explore Transformations > Discover > Investigate > Extension 1 > Semi-Regular Tessellations https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/19c0c3e9-b278-4adb-815f-aa2b3a4f8964
LAFS.910.WHST.1.1.a	Introduce precise claim(s), distinguish the claim(s) from alternate or opposing claims, and create an organization that establishes clear relationships among the claim(s), counterclaims, reasons, and evidence.	Triangle Geometry > Prove Congruence Theorems > Discover > Investigate > Investigation 4 > Critique https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/f0e73cac-0929-465a-abd2-c9991edf3ea9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/64dd78d4-062c-4486-940e-4536f8a2cb31

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LAFS.910.WHST.1.1.b	Develop claim(s) and counterclaims fairly, supplying data and evidence for each while pointing out the strengths and limitations of both claim(s) and counterclaims in a discipline-appropriate form and in a manner that anticipates the audience's knowledge level and concerns.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 4 > Who's Correct? https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c3779807-d2c6-4cf7-904f-9bb626df1b61
LAFS.910.WHST.1.1.b	Develop claim(s) and counterclaims fairly, supplying data and evidence for each while pointing out the strengths and limitations of both claim(s) and counterclaims in a discipline-appropriate form and in a manner that anticipates the audience's knowledge level and concerns.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 6 > Define Tessellations https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7d9d2be0-09c8-4dd3-9b03-bfac573d0ddd
LAFS.910.WHST.1.1.b	Develop claim(s) and counterclaims fairly, supplying data and evidence for each while pointing out the strengths and limitations of both claim(s) and counterclaims in a discipline-appropriate form and in a manner that anticipates the audience's knowledge level and concerns.	Trigonometry > Investigate Right Triangle Trigonometry > Discover > Investigate > Investigation 4 > Partner Challenge https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/b8bfa37f-50c8-4082-a216-a9601e8765ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/03022b89-d8da-4068-ad45-8225332e03b1
LAFS.910.WHST.1.1.c	Use words, phrases, and clauses to link the major sections of the text, create cohesion, and clarify the relationships between claim(s) and reasons, between reasons and evidence, and between claim(s) and counterclaims.	Foundations of Geometry > Explore the Building Blocks of Geometry > Discover > Investigate > Investigation 2 > Make a Conjecture https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/7adacf06-b05e-4e8c-bc89-2bbe0641ddd1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b62fe821-9600-4747-89bd-6c5d229d8c39

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LAFS.910.WHST.1.1.c	Use words, phrases, and clauses to link the major sections of the text, create cohesion, and clarify the relationships between claim(s) and reasons, between reasons and evidence, and between claim(s) and counterclaims.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 4 > Convince Me https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c3779807-d2c6-4cf7-904f-9bb626df1b61
LAFS.910.WHST.1.1.c	Use words, phrases, and clauses to link the major sections of the text, create cohesion, and clarify the relationships between claim(s) and reasons, between reasons and evidence, and between claim(s) and counterclaims.	Intersecting Lines > Explore Parallel and Perpendicular Lines > Discover > Investigate > Investigation 3 > Perpendicular Lines https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/ec4e23e1-4f89-43e5-99ae-2b9eaa937c6d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4a100852-8fb3-4441-8409-4ae3a54b85b4
LAFS.910.WHST.1.1.d	Establish and maintain a formal style and objective tone while attending to the norms and conventions of the discipline in which they are writing.	Foundations of Geometry > Explore Congruence Constructions in the Coordinate Plane > Discover > Investigate > Investigation 1 > Tools https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/a314e217-df97-43ff-b179-54c7757555c3/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7149decc-7905-4ac5-ab56-c93ffde43d75
LAFS.910.WHST.1.1.d	Establish and maintain a formal style and objective tone while attending to the norms and conventions of the discipline in which they are writing.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 3 > Function Rule https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e6458f56-452d-4b90-9f8e-2c53ff5b7329

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LAFS.910.WHST.1.1.d	Establish and maintain a formal style and objective tone while attending to the norms and conventions of the discipline in which they are writing.	Geometric Transformations > Investigate and Apply Congruence Definitions > Discover > Investigate > Investigation 1 > Describe Combined Transformations https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/eb3d883f-0f3a-4979-97c4-bf14dc1359fb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/648835cf-9484-437a-9c40-f156797e159c
LAFS.910.WHST.1.1.e	Provide a concluding statement or section that follows from or supports the argument presented.	Intersecting Lines > Explore Parallel and Perpendicular Lines > Discover > Investigate > Investigation 4 > Perpendicular Lines https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/ec4e23e1-4f89-43e5-99ae-2b9eaa937c6d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c22df182-e27c-4248-bf8e-73ee882e02dc
LAFS.910.WHST.1.1.e	Provide a concluding statement or section that follows from or supports the argument presented.	Triangle Geometry > Construct Special Triangles and Angles > Discover > Investigate > Extension > What's the Pattern? https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/5e2baae7-9c25-4ad2-8140-95c9c40e99f4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/59429b11-7787-4029-bccc-9176baf009e8
LAFS.910.WHST.1.1.e	Provide a concluding statement or section that follows from or supports the argument presented.	Triangle Geometry > Prove Congruent Theorems > Discover > Investigate > Extension > Regular Polygon Angles https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/f0e73cac-0929-465a-abd2-c9991edf3ea9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/da09c563-63ea-4383-aa2a-61e83f0d05e8

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LAFS.910.WHST.2.4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Intersecting Lines > Prove Theorems about Lines and Angles > Discover > Investigate > Investigate 2 > Write a 2-Column Proof https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/e142055e-26cc-4b0a-8d71-b641a5dda568/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e7addf39-901d-4e32-8209-10dbef68d9e5
LAFS.910.WHST.2.4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Intersecting Lines > Prove Theorems about Lines and Angles > Discover > Investigate > Investigate 3 > Write a Paragraph Proof https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/e142055e-26cc-4b0a-8d71-b641a5dda568/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/15354dcf-c475-432d-b71f-48e9f7fcb3c
LAFS.910.WHST.2.4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Intersecting Lines > Prove Theorems about Lines and Angles > Discover > Investigate > Investigation 1 > Write a Flowchart Proof https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/e142055e-26cc-4b0a-8d71-b641a5dda568/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4b574193-1e80-49d1-b17a-5dfbd48a19c1
LAFS.910.WHST.3.9	Draw evidence from informational texts to support analysis, reflection, and research.	Foundations of Geometry > Explore Measurements > Discover > Investigate > Extension > Distance Formula https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/2d4d389b-c9b7-46cf-86ef-89e6879a8091/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/dfd61ffb-7152-45cb-b89a-dddb6843f0cf

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LAFS.910.WHST.3.9	Draw evidence from informational texts to support analysis, reflection, and research.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 4 > Walk the Line https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c3779807-d2c6-4cf7-904f-9bb626df1b61
LAFS.910.WHST.3.9	Draw evidence from informational texts to support analysis, reflection, and research.	Geometric Transformations > Investigate and Apply Congruence Definitions > Discover > Investigate > Investigation 3 > Who's Correct? https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/eb3d883f-0f3a-4979-97c4-bf14dc1359fb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/68526221-66a7-4d79-bd2f-e1b8fe1c5672
MAFS.912.G-C.1.1	Prove that all circles are similar.	The Geometry of Circles > Investigate Circles and Parts of Circles > Discovery > Discover > Investigate > Investigation 5 > Convince Me https://app.discoveryeducation.com/learn/techbook/units/c8f967b5-eda8-45e1-8054-a186f053da3e/concepts/658545c9-7e9a-47e8-a597-1a5a3aaba4fa/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1f2db13c-68bb-46fe-b5ce-5d5737fc92a6
MAFS.912.G-C.1.1	Prove that all circles are similar.	The Geometry of Circles > Investigate Circles and Parts of Circles > Practice > Coach #15 https://app.discoveryeducation.com/core:assessment/coach?practice=4fc57da5-d1a6-4fff-9676-68aafe5e55fc&conceptGuid=658545c9-7e9a-47e8-a597-1a5a3aaba4fa&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=c8f967b5-eda8-45e1-8054-a186f053da3e&teacherMode=true

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MAFS.912.G-C.1.1	Prove that all circles are similar.	The Geometry of Circles > Investigate Circles and Parts of Circles > Apply #1 https://app.discoveryeducation.com/learn/techbook/units/c8f967b5-eda8-45e1-8054-a186f053da3e/concepts/658545c9-7e9a-47e8-a597-1a5a3aaba4fa/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/AEEE6A9A-5567-48F8-BEE0-E8D26B730854
MAFS.912.G-C.1.2	Identify and describe relationships among inscribed angles, radii, and chords.	The Geometry of Circles > Investigate Circles and Parts of Circles > Discover > Investigate > Investigation #2 > Inscribed Angles https://app.discoveryeducation.com/learn/techbook/units/c8f967b5-eda8-45e1-8054-a186f053da3e/concepts/658545c9-7e9a-47e8-a597-1a5a3aaba4fa/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/eb8c387f-af51-4993-a8f0-5438ceb06c42
MAFS.912.G-C.1.2	Identify and describe relationships among inscribed angles, radii, and chords.	The Geometry of Circles > Investigate Circles and Parts of Circles > Discover > Investigate > Investigation #3 > Hands-On Activity: Fold Three Theorems https://app.discoveryeducation.com/learn/player/10f473b1-390a-45d2-baf7-5f5e04eeabaf
MAFS.912.G-C.1.2	Identify and describe relationships among inscribed angles, radii, and chords.	The Geometry of Circles > Investigate Circles and Parts of Circles > Discover > Investigate > Investigation #3 > Chords and Radii https://app.discoveryeducation.com/learn/techbook/units/c8f967b5-eda8-45e1-8054-a186f053da3e/concepts/658545c9-7e9a-47e8-a597-1a5a3aaba4fa/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/909e134f-b98b-41b6-a368-361a950cafb3
MAFS.912.G-C.1.3	Construct the inscribed and circumscribed circles of a triangle, and prove properties of angles for a quadrilateral inscribed in a circle.	Triangles and Circles > Investigation Concurrency in Triangles > Investigation 1 > Dynamic Geometry Tool: Circumscribed Circle https://app.discoveryeducation.com/core:tools/index/toolname/Geometry#Geometry/asset/092f531b-1353-47b7-be57-9a259b427e7b

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MAFS.912.G-C.1.3	Construct the inscribed and circumscribed circles of a triangle, and prove properties of angles for a quadrilateral inscribed in a circle.	Triangles and Circles > Investigation Concurrency in Triangles > Investigation 1 > Dynamic Geometry Tool: Inscribed Circle https://app.discoveryeducation.com/core:tools/index/toolname/Geometry#Geometry/asset/353b0c4e-91e7-4ad6-ac6a-fd05fa8f0fbe
MAFS.912.G-C.1.3	Construct the inscribed and circumscribed circles of a triangle, and prove properties of angles for a quadrilateral inscribed in a circle.	Quadrilaterals and Other Polygons > Construct and Explore Polygons > Discover > Investigate > Investigation 2 > Make a Conjecture https://app.discoveryeducation.com/learn/techbook/units/87bdc32e-f31e-44a5-b65a-9b744bbf868d/concepts/01db4218-26b2-44ae-bf27-689cc16736fb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/09797d0e-9d9e-4268-a1ff-d10914d93b55
MAFS.912.G-C.1.4	Construct a tangent line from a point outside a given circle to the circle.	The Geometry of Circles > Investigate Circles and Parts of Circles > Discover > Investigate > Investigation 3 > Bicycle Chain https://app.discoveryeducation.com/core:tools/index/toolname/Geometry#Geometry/asset/32836202-d5bd-424d-87cb-89e50c644a7c
MAFS.912.G-C.1.4	Construct a tangent line from a point outside a given circle to the circle.	The Geometry of Circles > Investigate Circles and Parts of Circles > Discover > Investigate > Investigation 3: The Longest Path > Exploring Tangents https://app.discoveryeducation.com/core:tools/index/toolname/Geometry#Geometry/asset/ff7ca834-7d83-4710-a001-1493b9634312
MAFS.912.G-C.1.4	Construct a tangent line from a point outside a given circle to the circle.	Investigate Circles and Parts of Circles > Practice > Play #14 https://app.discoveryeducation.com/core:assessment/play?conceptGuid=658545c9-7e9a-47e8-a597-1a5a3aaba4fa&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=c8f967b5-eda8-45e1-8054-a186f053da3e&teacherMode=true#focus

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MAFS.912.G-C.2.5	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.	The Geometry of Circles > Investigate and Apply Area and Circumference Formulas > Discover > Investigate > Investigation 3 > All Sectors Considered https://app.discoveryeducation.com/learn/techbook/units/c8f967b5-eda8-45e1-8054-a186f053da3e/concepts/a8843881-70b4-455f-a2d2-4530e0e36b13/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/72eca2e1-1b67-4df0-81fe-c79ae3b07c83
MAFS.912.G-C.2.5	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.	The Geometry of Circles > Investigate and Apply Area and Circumference Formulas > Discover > Investigate > Investigation 2 > Across the Board https://app.discoveryeducation.com/learn/techbook/units/c8f967b5-eda8-45e1-8054-a186f053da3e/concepts/a8843881-70b4-455f-a2d2-4530e0e36b13/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2bbed476-e794-44ed-b660-7fb3af111fa7
MAFS.912.G-C.2.5	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.	The Geometry of Circles > Investigate and Apply Area and Circumference Formula > Discover > Investigate > Extension > Easy as Pi € https://app.discoveryeducation.com/learn/techbook/units/c8f967b5-eda8-45e1-8054-a186f053da3e/concepts/a8843881-70b4-455f-a2d2-4530e0e36b13/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8535f802-d111-48e7-b618-672355302511
MAFS.912.G-CO.1.1	Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.	The Geometry of Circles > Investigate and Apply Area and Circumference Formulas > Practice > Coach #14 https://app.discoveryeducation.com/core/assessment/coach?practice=e16951a1-ee1e-4fed-a5a0-949e0b74742f&conceptGuid=a8843881-70b4-455f-a2d2-4530e0e36b13&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=c8f967b5-eda8-45e1-8054-a186f053da3e&teacherMode=true

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MAFS.912.G-CO.1.1	Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.	Foundations of Geometry > Explore the Building Blocks of Geometry > Discover > Investigate > Investigation 1 > Dossier 1 https://app.discoveryeducation.com/learn/player/453359dd-d864-4d6e-9557-58001d51acf7
MAFS.912.G-CO.1.1	Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.	Foundations of Geometry > Explore the Building Blocks of Geometry > Discover > Investigate > Investigation 1 > Dossier 2 https://app.discoveryeducation.com/learn/player/dd616ef4-ead6-4142-9877-bc6eac2340fd
MAFS.912.G-CO.1.1	Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.	Foundations of Geometry > Explore the Building Blocks of Geometry > Practice > Coach #3 https://app.discoveryeducation.com/core:assessment/coach?practice=6bafb5d9-46e0-43b8-b47f-8709198121f6&conceptGuid=7adacf06-b05e-4e8c-bc89-2bbe0641ddd1&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=711fbdd4-e4a7-4d2f-b163-15b4ae6bec96&teacherMode=true
MAFS.912.G-CO.1.2	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).	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 3 https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e6458f56-452d-4b90-9f8e-2c53ff5b7329

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MAFS.912.G-CO.1.2	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).	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 4 > Transformation Exploration https://app.discoveryeducation.com/core:tools/index/toolname/Geometry#Geometry/asset/7bf1db81-442e-454f-b753-20499dbd9a1e
MAFS.912.G-CO.1.2	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).	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 2 > Compare Construction Methods https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/12925bd5-4bc8-428c-8d8d-4144fc6fc136
MAFS.912.G-CO.1.3	Given a rectangle, parallelogram, trapezoid, or regular polygon, describe the rotations and reflections that carry it onto itself.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 5 > Line Symmetry https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6776f401-8473-4979-b54a-277dc744b0f7
MAFS.912.G-CO.1.3	Given a rectangle, parallelogram, trapezoid, or regular polygon, describe the rotations and reflections that carry it onto itself.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 5 > Rotation Symmetry https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6776f401-8473-4979-b54a-277dc744b0f7

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MAFS.912.G-CO.1.3	Given a rectangle, parallelogram, trapezoid, or regular polygon, describe the rotations and reflections that carry it onto itself.	Geometric Transformations > Explore Transformations > Practice > Coach #5 https://app.discoveryeducation.com/core:assessment/coach?practice=5f2e7dea-a2ed-447a-886d-eaddfe17dfb9&conceptGuid=43c631b6-5f5c-4d06-946d-68a667c9e2b5&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=b567585a-702d-4c2c-9140-0325e3a7522e&teacherMode=true
MAFS.912.G-CO.1.4	Develop definitions of rotations, reflections, and translations in terms of angles, circles, perpendicular lines, parallel lines, and line segments.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 4 > Synthesize https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c3779807-d2c6-4cf7-904f-9bb626df1b61
MAFS.912.G-CO.1.4	Develop definitions of rotations, reflections, and translations in terms of angles, circles, perpendicular lines, parallel lines, and line segments.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 4 > Walk the Line https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c3779807-d2c6-4cf7-904f-9bb626df1b61
MAFS.912.G-CO.1.4	Develop definitions of rotations, reflections, and translations in terms of angles, circles, perpendicular lines, parallel lines, and line segments.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 4 > A Helping Hand https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/43c631b6-5f5c-4d06-946d-68a667c9e2b5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c3779807-d2c6-4cf7-904f-9bb626df1b61

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MAFS.912.G-CO.1.5	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.	Geometric Transformations > Explore Transformations > Discover > Investigate > Investigation 4 > Reflections: Whiteboard https://app.discoveryeducation.com/core:tools/index/toolname/Whiteboard#Whiteboard/asset/5e9b7b9a-97e0-4556-a1f5-661e2b187180
MAFS.912.G-CO.1.5	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.	Geometric Transformations > Explore Transformations > Practice > Coach #8 https://app.discoveryeducation.com/core:assessment/coach?practice=5f2e7dea-a2ed-447a-886d-eaddfe17dfb9&conceptGuid=43c631b6-5f5c-4d06-946d-68a667c9e2b5&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=b567585a-702d-4c2c-9140-0325e3a7522e&teacherMode=true
MAFS.912.G-CO.1.5	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.	Geometric Transformations > Explore Transformations > Practice > Coach #10 https://app.discoveryeducation.com/core:assessment/coach?practice=5f2e7dea-a2ed-447a-886d-eaddfe17dfb9&conceptGuid=43c631b6-5f5c-4d06-946d-68a667c9e2b5&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=b567585a-702d-4c2c-9140-0325e3a7522e&teacherMode=true
MAFS.912.G-CO.2.6	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.	Triangle Geometry > Prove Congruence Theorems > Discover > Investigate > Investigation 2 > Activity: Side-Angle-Side Transformations https://app.discoveryeducation.com/learn/player/8246edc1-eaac-4cf6-932a-96f85c9cc2a6
MAFS.912.G-CO.2.6	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.	Triangle Geometry > Prove Congruence Theorems > Discover > Investigate > Investigation 2 > Activity: Angle-Side-Angle Transformations https://app.discoveryeducation.com/learn/player/02100b8b-536e-48fa-b564-c77d75359bf5

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MAFS.912.G-CO.2.6	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.	Triangle Geometry > Prove Congruence Theorems > Discover > Investigate > Investigation 4 > Transform https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/f0e73cac-0929-465a-abd2-c9991edf3ea9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/64dd78d4-062c-4486-940e-4536f8a2cb31
MAFS.912.G-CO.2.7	Use the 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.	Triangle Geometry > Prove Congruence Theorems > Discover > Investigate > Investigation 2 > Triangle Geometry: Explore https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/f0e73cac-0929-465a-abd2-c9991edf3ea9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d433ccac-f916-45aa-a300-a6fe97df6004
MAFS.912.G-CO.2.7	Use the 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.	Geometric Transformations > Investigate and Apply Congruence Definitions > Discover > Investigate > Investigation 5 > Create Congruent Triangles https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/eb3d883f-0f3a-4979-97c4-bf14dc1359fb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7a64b104-5021-42ca-9ed9-537968f1e584
MAFS.912.G-CO.2.7	Use the 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.	Geometric Transformations > Investigate and Apply Congruence Definitions > Practice > Coach #7 https://app.discoveryeducation.com/core:assessment/coach?practice=a5bc9070-f655-4ed8-87d3-0799b70d864b&conceptGuid=eb3d883f-0f3a-4979-97c4-bf14dc1359fb&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=b567585a-702d-4c2c-9140-0325e3a7522e&teacherMode=true

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MAFS.912.G-CO.2.8	Explain how the criteria for triangle congruence (ASA, SAS, SSS, and Hypotenuse-Leg) follow from the definition of congruence in terms of rigid motions.	Geometric Transformations > Investigate and Apply Congruence Definitions > Discover > Investigate > Investigation 5 > Triangle Congruence Criteria https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/eb3d883f-0f3a-4979-97c4-bf14dc1359fb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7a64b104-5021-42ca-9ed9-537968f1e584
MAFS.912.G-CO.2.8	Explain how the criteria for triangle congruence (ASA, SAS, SSS, and Hypotenuse-Leg) follow from the definition of congruence in terms of rigid motions.	Triangle Geometry > Prove Congruence Theorems > Discover > Investigate > Investigation 2 > SAS Triangle Congruence https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/eb3d883f-0f3a-4979-97c4-bf14dc1359fb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7a64b104-5021-42ca-9ed9-537968f1e584
MAFS.912.G-CO.2.8	Explain how the criteria for triangle congruence (ASA, SAS, SSS, and Hypotenuse-Leg) follow from the definition of congruence in terms of rigid motions.	Triangle Geometry > Prove Congruence Theorems > Discover > Investigate > Investigation 2 > ASA Triangle Congruence https://app.discoveryeducation.com/learn/techbook/units/b567585a-702d-4c2c-9140-0325e3a7522e/concepts/eb3d883f-0f3a-4979-97c4-bf14dc1359fb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7a64b104-5021-42ca-9ed9-537968f1e584
MAFS.912.G-CO.3.9	Prove theorems about lines and angles; use theorems about lines and angles to solve problems.	Intersecting Lines > Prove Theorems about Lines and Angles > Discover > Investigate > Investigation 2 > Corresponding Angle Theorem https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/e142055e-26cc-4b0a-8d71-b641a5dda568/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e7addf39-901d-4e32-8209-10dbef68d9e5

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MAFS.912.G-CO.3.9	Prove theorems about lines and angles; use theorems about lines and angles to solve problems.	Intersecting Lines > Prove Theorems about Lines and Angles > Discover > Investigate > Investigation 3 > Apply a Postulate https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/e142055e-26cc-4b0a-8d71-b641a5dda568/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/15354dcf-c475-432d-b71f-48e9f7fcb3c
MAFS.912.G-CO.3.9	Prove theorems about lines and angles; use theorems about lines and angles to solve problems.	Intersecting Lines > Prove Theorems about Lines and Angles > Practice > Coach #7 https://app.discoveryeducation.com/core:assessment/coach?practice=322a0939-e297-4c25-a489-c468de112c82&conceptGuid=e142055e-26cc-4b0a-8d71-b641a5dda568&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=bf978799-3cd6-4106-affe-9e01fe09d191&teacherMode=true
MAFS.912.G-CO.3.10	Prove theorems about triangles; use theorems about triangles to solve problems.	Triangle Geometry > Prove Congruence Theorems > Discover > Investigate > Investigation 1 > Prove https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/f0e73cac-0929-465a-abd2-c9991edf3ea9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/93640303-6a3f-42e2-884b-a7a6f6f5abb6
MAFS.912.G-CO.3.10	Prove theorems about triangles; use theorems about triangles to solve problems.	Triangle Geometry > Prove Congruence Theorems > Discover > Investigate > Investigation 1 > Analyze a Claim https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/f0e73cac-0929-465a-abd2-c9991edf3ea9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/93640303-6a3f-42e2-884b-a7a6f6f5abb6

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MAFS.912.G-CO.3.10	Prove theorems about triangles; use theorems about triangles to solve problems.	Triangle Geometry > Prove Congruence Theorems > Discover > Investigate > Investigation 4 > Prove the SSS Triangle Congruence Theorem https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/f0e73cac-0929-465a-abd2-c9991edf3ea9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/64dd78d4-062c-4486-940e-4536f8a2cb31
MAFS.912.G-CO.3.11	Prove theorems about parallelograms; use theorems about parallelograms to solve problems.	Quadrilaterals and Other Polygons > Prove and Apply Theorems about Quadrilaterals > Discover > Investigate > Investigation 2 > Consecutive Angles of a Parallelogram https://app.discoveryeducation.com/core:tools/index/toolname/Whiteboard#Whiteboard/asset/FD3D1577-4FFE-4A91-BE95-751FC9793348
MAFS.912.G-CO.3.11	Prove theorems about parallelograms; use theorems about parallelograms to solve problems.	Quadrilaterals and Other Polygons > Prove and Apply Theorems about Quadrilaterals > Discover > Investigate > Investigation 2 > Diagonals of a Parallelogram https://app.discoveryeducation.com/learn/techbook/units/87bdc32e-f31e-44a5-b65a-9b744bbf868d/concepts/5b4c417f-1534-41fa-a398-e405b0beb514/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/82002773-d906-4291-a29f-d88a46323c3c
MAFS.912.G-CO.3.11	Prove theorems about parallelograms; use theorems about parallelograms to solve problems.	Quadrilaterals and Other Polygons > Prove and Apply Theorems about Quadrilaterals > Practice > Coach #6 https://app.discoveryeducation.com/core:assessment/coach?practice=b4144c84-5d5f-4156-b9f5-f1c7301bcf53&conceptGuid=5b4c417f-1534-41fa-a398-e405b0beb514&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=87bdc32e-f31e-44a5-b65a-9b744bbf868d&teacherMode=true

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MAFS.912.G-CO.4.12	Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.).	Triangle Geometry > Construct Special Triangles and Angles > Discover > Investigate > Investigation 2 > Copy an Angle https://app.discoveryeducation.com/core:tools/index/toolname/Construction#Construction/asset/8ea59704-a61d-4bba-911b-dc16b9104a44
MAFS.912.G-CO.4.12	Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.).	Triangle Geometry > Construct Special Triangles and Angles > Discover > Investigate > Investigation 3 > Construct the Perpendicular https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/5e2baae7-9c25-4ad2-8140-95c9c40e99f4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4e4619e3-32ac-4a30-80ed-bf09aa60f9e4
MAFS.912.G-CO.4.12	Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.).	Triangle Geometry > Construct Special Triangles and Angles > Discover > Investigate > Investigation 4 https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/5e2baae7-9c25-4ad2-8140-95c9c40e99f4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/05818b25-e9b2-4c3b-96c1-5e0e30121011
MAFS.912.G-CO.4.13	Construct an equilateral triangle, a square, and a regular hexagon inscribed in a circle.	Quadrilaterals and Other Polygons > Construct and Explore Polygons > Discover > Investigate > Investigation 1 > Figures Based on Hexagons > Construction Tool https://app.discoveryeducation.com/core:tools/index/toolname/Construction#Construction

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MAFS.912.G-CO.4.13	Construct an equilateral triangle, a square, and a regular hexagon inscribed in a circle.	Quadrilaterals and Other Polygons > Construct and Explore Polygons > Discover > Investigate > Investigation 1 > Figures Based on Hexagons > Inscribed Equilateral Triangle https://app.discoveryeducation.com/learn/techbook/units/87bdc32e-f31e-44a5-b65a-9b744bbf868d/concepts/01db4218-26b2-44ae-bf27-689cc16736fb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/cabc7c7c-b075-4cb3-b536-6a9f8d4d87f0
MAFS.912.G-CO.4.13	Construct an equilateral triangle, a square, and a regular hexagon inscribed in a circle.	Quadrilaterals and Other Polygons > Construct and Explore Polygons > Discover > Investigate > Investigation 1 > Figures Based on Squares https://app.discoveryeducation.com/core:tools/index/toolname/Construction#Construction
MAFS.912.G-GMD.1.1	Give an informal argument for the formulas for the circumference of a circle, area of a circle, volume of a cylinder, pyramid, and cone.	The Geometry of Circles > Investigate and Apply Area and Circumference Formulas > Discover > Investigate > Investigation 4 > Circumference https://app.discoveryeducation.com/learn/techbook/units/c8f967b5-eda8-45e1-8054-a186f053da3e/concepts/a8843881-70b4-455f-a2d2-4530e0e36b13/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7d5f9133-26dc-4956-a8e8-245fbb258e5a
MAFS.912.G-GMD.1.1	Give an informal argument for the formulas for the circumference of a circle, area of a circle, volume of a cylinder, pyramid, and cone.	The Geometry of Circles > Investigate and Apply Area and Circumference Formulas > Discover > Investigate > Investigation 2 > Across the Board https://app.discoveryeducation.com/learn/techbook/units/c8f967b5-eda8-45e1-8054-a186f053da3e/concepts/a8843881-70b4-455f-a2d2-4530e0e36b13/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2bbbed476-e794-44ed-b660-7fb3af111fa7

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MAFS.912.G-GMD.1.1	Give an informal argument for the formulas for the circumference of a circle, area of a circle, volume of a cylinder, pyramid, and cone.	3-D Figures > Develop and Apply Volume Formulas > Discover > Investigate > Investigation 2 > Hands-On Activity: Pyramid Models https://app.discoveryeducation.com/learn/player/9bdeac3e-7c12-4edf-9320-e2f9e1906556
MAFS.912.G-GMD.1.2	Give an informal argument using Cavalieri's principle for the formulas for the volume of a sphere and other solid figures.	3-D Figures > Develop and Apply Volume Formulas > Discover > Investigate > Investigation 1 > Prisms and Cylinders https://app.discoveryeducation.com/learn/techbook/units/3e3ab86f-de69-43db-99bf-0bc6b2947a9f/concepts/d4e72632-c2c9-4ad9-bd48-7825b198447e/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/eddc7033-419b-4d90-9f44-60918c767618
MAFS.912.G-GMD.1.2	Give an informal argument using Cavalieri's principle for the formulas for the volume of a sphere and other solid figures.	3-D Figures > Develop and Apply Volume Formulas > Discover > Investigate > Investigation 2 > Extend the Volume Formula https://app.discoveryeducation.com/learn/techbook/units/3e3ab86f-de69-43db-99bf-0bc6b2947a9f/concepts/d4e72632-c2c9-4ad9-bd48-7825b198447e/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/32d188f2-a2b2-4c08-9125-8ef0ee2943ba
MAFS.912.G-GMD.1.2	Give an informal argument using Cavalieri's principle for the formulas for the volume of a sphere and other solid figures.	3-D Figures > Develop and Apply Volume Formulas > Discover > Investigate > Investigation 3 > Conclusion https://app.discoveryeducation.com/learn/techbook/units/3e3ab86f-de69-43db-99bf-0bc6b2947a9f/concepts/d4e72632-c2c9-4ad9-bd48-7825b198447e/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a640a997-5bd7-4ea4-bdc7-ba843c15680d

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MAFS.912.G-GMD.1.3	Use volume formulas for cylinders, pyramids, cones, and spheres to solve problems.	3-D Figures > Develop and Apply Volume Formulas > Practice > Coach #3 https://app.discoveryeducation.com/core:assessment/coach?practice=0a77e173-4a29-4196-ae93-443637e6b3ff&conceptGuid=d4e72632-c2c9-4ad9-bd48-7825b198447e&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=3e3ab86f-de69-43db-99bf-0bc6b2947a9f&teacherMode=true
MAFS.912.G-GMD.1.3	Use volume formulas for cylinders, pyramids, cones, and spheres to solve problems.	3-D Figures > Develop and Apply Volume Formulas > Practice > Coach #5 https://app.discoveryeducation.com/core:assessment/coach?practice=0a77e173-4a29-4196-ae93-443637e6b3ff&conceptGuid=d4e72632-c2c9-4ad9-bd48-7825b198447e&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=3e3ab86f-de69-43db-99bf-0bc6b2947a9f&teacherMode=true
MAFS.912.G-GMD.1.3	Use volume formulas for cylinders, pyramids, cones, and spheres to solve problems.	3-D Figures > Develop and Apply Volume Formulas > Practice > Coach #7 https://app.discoveryeducation.com/core:assessment/coach?practice=0a77e173-4a29-4196-ae93-443637e6b3ff&conceptGuid=d4e72632-c2c9-4ad9-bd48-7825b198447e&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=3e3ab86f-de69-43db-99bf-0bc6b2947a9f&teacherMode=true
MAFS.912.G-GMD.2.4	Identify the shapes of two-dimensional cross-sections of three-dimensional objects, and identify three-dimensional objects generated by rotations of two-dimensional objects.	3-D Figures > Investigate Cross-Sections and Rotations > Discover > Investigate > Investigation 1 > Shape Slicer https://app.discoveryeducation.com/learn/techbook/units/3e3ab86f-de69-43db-99bf-0bc6b2947a9f/concepts/4bec43d7-4309-4588-b34d-043d3f2bdaec/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/31b4f3d9-4dc6-4f39-89a4-ea64897c2f7b

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MAFS.912.G-GMD.2.4	Identify the shapes of two-dimensional cross-sections of three-dimensional objects, and identify three-dimensional objects generated by rotations of two-dimensional objects.	3-D Figures > Investigate Cross-Sections and Rotations > Discover > Investigate > Investigation 1 > Possible Cross-Sections https://app.discoveryeducation.com/learn/techbook/units/3e3ab86f-de69-43db-99bf-0bc6b2947a9f/concepts/4bec43d7-4309-4588-b34d-043d3f2bdaec/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/31b4f3d9-4dc6-4f39-89a4-ea64897c2f7b
MAFS.912.G-GMD.2.4	Identify the shapes of two-dimensional cross-sections of three-dimensional objects, and identify three-dimensional objects generated by rotations of two-dimensional objects.	3-D Figures > Investigate Cross-Sections and Rotations > Discover > Investigate > Investigation 2 > Classify Your Rotations https://app.discoveryeducation.com/learn/techbook/units/3e3ab86f-de69-43db-99bf-0bc6b2947a9f/concepts/4bec43d7-4309-4588-b34d-043d3f2bdaec/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ea459007-deef-4dca-877a-a5d340ee215a
MAFS.912.G-GPE.1.1	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.	The Geometry of Circles > Investigate and Interpret Circle Equations > Discover > Investigate > Investigation 1 > Shift the Center https://app.discoveryeducation.com/learn/techbook/units/c8f967b5-eda8-45e1-8054-a186f053da3e/concepts/f5b756c3-d635-4a6b-81cc-03e235787f35/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/049a9053-43d4-4c50-817c-89dcb562346b
MAFS.912.G-GPE.1.1	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.	The Geometry of Circles > Investigate and Interpret Circle Equations > Discover > Investigate > Investigation 2 > Summarize https://app.discoveryeducation.com/learn/techbook/units/c8f967b5-eda8-45e1-8054-a186f053da3e/concepts/f5b756c3-d635-4a6b-81cc-03e235787f35/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/fb1ec22d-c762-49c1-aba3-edebcfffab5c3

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MAFS.912.G-GPE.1.1	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.	<p>The Geometry of Circles > Investigate and Interpret Circle Equations > Practice > Coach #8</p> <p>https://app.discoveryeducation.com/core:assessment/coach?practice=af496c3a-c7e3-4dab-9e2f-0dd0171aa76b&conceptGuid=f5b756c3-d635-4a6b-81cc-03e235787f35&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=c8f967b5-eda8-45e1-8054-a186f053da3e&teacherMode=true</p>
MAFS.912.G-GPE.1.2	Derive the equation of a parabola given a focus and directrix.	<p>Conic Sections > Analyze Graphs and Equations of Parabolas > Discover > Investigate > Investigation 2 > Relating Key Information to the Equation</p> <p>https://app.discoveryeducation.com/learn/techbook/units/f0c17500-1da5-43e5-aa44-6e46050ab5ed/concepts/d7021762-f31b-494c-9cc6-a59ad7c340fd/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/50ad6aa9-4086-47d5-be53-bb8e99a11238</p>
MAFS.912.G-GPE.1.2	Derive the equation of a parabola given a focus and directrix.	<p>Conic Sections > Analyze Graphs and Equations of Parabolas > Discover > Investigate > Investigation 2 > Generalilze</p> <p>https://app.discoveryeducation.com/learn/techbook/units/f0c17500-1da5-43e5-aa44-6e46050ab5ed/concepts/d7021762-f31b-494c-9cc6-a59ad7c340fd/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/50ad6aa9-4086-47d5-be53-bb8e99a11238</p>
MAFS.912.G-GPE.1.2	Derive the equation of a parabola given a focus and directrix.	<p>Conic Sections > Analyze Graphs and Equations of Parabolas > Practice > Coach #9</p> <p>https://app.discoveryeducation.com/core:assessment/coach?practice=3b9b16ba-8947-4a9b-bd57-3e8f81a28def&conceptGuid=d7021762-f31b-494c-9cc6-a59ad7c340fd&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=f0c17500-1da5-43e5-aa44-6e46050ab5ed&teacherMode=true</p>

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MAFS.912.G-GPE.1.3	Derive the equations of ellipses and hyperbolas given the foci and directrices.	Conic Sections > Analyze Graphs and Equations of Circles and Ellipses > Discover > Investigate > Investigation 3 > Derive the Equation https://app.discoveryeducation.com/learn/techbook/units/f0c17500-1da5-43e5-aa44-6e46050ab5ed/concepts/7376382e-4c4d-4941-b34c-332525571a83/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/46cb89d9-7d3a-40dd-8e97-9155179282d4
MAFS.912.G-GPE.1.3	Derive the equations of ellipses and hyperbolas given the foci and directrices.	Conic Sections > Analyze Graphs and Equations of Circles and Ellipses > Practice > Coach #5 https://app.discoveryeducation.com/core:assessment/coach?practice=fb7557e7-bcf9-4295-9654-d206415e36f1&conceptGuid=7376382e-4c4d-4941-b34c-332525571a83&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=f0c17500-1da5-43e5-aa44-6e46050ab5ed&teacherMode=true
MAFS.912.G-GPE.1.3	Derive the equations of ellipses and hyperbolas given the foci and directrices.	Conic Sections > Analyze Graphs and Equations of Hyperbolas > Discover > Investigate > Investigation 1 > Derive the Equation https://app.discoveryeducation.com/learn/techbook/units/f0c17500-1da5-43e5-aa44-6e46050ab5ed/concepts/cb841a37-3ccc-4b19-bc22-75b834ae0732/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/27bb9d23-259e-46fb-a20e-18a30949098e
MAFS.912.G-GPE.2.4	Use coordinates to prove simple geometric theorems algebraically.	Intersecting Lines > Prove Theorems about Lines and Angles > Discover > Investigate > Investigation 5 > Slope of Parallel Lines https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/e142055e-26cc-4b0a-8d71-b641a5dda568/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a0de3869-d7c8-4226-b4eb-d6219aad1df9

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MAFS.912.G-GPE.2.4	Use coordinates to prove simple geometric theorems algebraically.	Intersecting Lines > Prove Theorems about Lines and Angles > Discover > Investigate > Investigation 5 > Slope of Perpendicular Lines https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/e142055e-26cc-4b0a-8d71-b641a5dda568/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a0de3869-d7c8-4226-b4eb-d6219aad1df9
MAFS.912.G-GPE.2.4	Use coordinates to prove simple geometric theorems algebraically.	Quadrilaterals and Other Polygons > Prove and Apply Theorems about Quadrilaterals > Discover > Investigate > Investigation 5 > Quadrilaterals in the Coordinate Plane https://app.discoveryeducation.com/learn/techbook/units/87bdc32e-f31e-44a5-b65a-9b744bbf868d/concepts/5b4c417f-1534-41fa-a398-e405b0beb514/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/37d048f2-2b24-40c5-96b9-c6e0882ff68a
MAFS.912.G-GPE.2.5	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).	Intersecting Lines > Prove Theorems about Lines and Angles > Discover > Investigate > Investigation 5 > Slope of Parallel Lines https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/e142055e-26cc-4b0a-8d71-b641a5dda568/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a0de3869-d7c8-4226-b4eb-d6219aad1df9
MAFS.912.G-GPE.2.5	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).	Intersecting Lines > Prove Theorems about Lines and Angles > Discover > Investigate > Investigation 5 > Slope of Perpendicular Lines https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/e142055e-26cc-4b0a-8d71-b641a5dda568/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a0de3869-d7c8-4226-b4eb-d6219aad1df9

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MAFS.912.G-GPE.2.5	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).	Intersecting Lines > Prove Theorems about Lines and Angles > Practice > Coach #2 https://app.discoveryeducation.com/core:assessment/coach?practice=322a0939-e297-4c25-a489-c468de112c82&conceptGuid=e142055e-26cc-4b0a-8d71-b641a5dda568&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=bf978799-3cd6-4106-affe-9e01fe09d191&teacherMode=true
MAFS.912.G-GPE.2.6	Find the point on a directed line segment between two given points that partitions the segment in a given ratio.	Foundations of Geometry > Explore Measurements in the Coordinate Plane > Discover > Investigate > Investigation 2 > Karate Carpenter: Explore https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/2d4d389b-c9b7-46cf-86ef-89e6879a8091/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/bf7a9b76-04d4-4af5-9097-32e001e55bba
MAFS.912.G-GPE.2.6	Find the point on a directed line segment between two given points that partitions the segment in a given ratio.	Foundations of Geometry > Explore Measurements in the Coordinate Plane > Discover > Investigate > Investigation 3 > Rodney's Rule https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/2d4d389b-c9b7-46cf-86ef-89e6879a8091/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/06aeaf9c-a7f5-48b3-b182-5d7515abbe03
MAFS.912.G-GPE.2.6	Find the point on a directed line segment between two given points that partitions the segment in a given ratio.	Foundations of Geometry > Explore Measurements in the Coordinate Plane > Practice > Coach #10 https://app.discoveryeducation.com/core:assessment/coach?practice=e028e45f-b119-4488-a947-a6fa6f46440a&conceptGuid=2d4d389b-c9b7-46cf-86ef-89e6879a8091&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=711fbdd4-e4a7-4d2f-b163-15b4ae6bec96&teacherMode=true

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MAFS.912.G-GPE.2.7	Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, e.g., using the distance formula.	Foundations of Geometry > Explore Measurements in the Coordinate Plane > Practice > Coach #5 https://app.discoveryeducation.com/core:assessment/coach?practice=e028e45f-b119-4488-a947-a6fa6f46440a&conceptGuid=2d4d389b-c9b7-46cf-86ef-89e6879a8091&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=711fbdd4-e4a7-4d2f-b163-15b4ae6bec96&teacherMode=true
MAFS.912.G-GPE.2.7	Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, e.g., using the distance formula.	Foundations of Geometry > Explore Measurements in the Coordinate Plane > Practice > Coach #8 https://app.discoveryeducation.com/core:assessment/coach?practice=e028e45f-b119-4488-a947-a6fa6f46440a&conceptGuid=2d4d389b-c9b7-46cf-86ef-89e6879a8091&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=711fbdd4-e4a7-4d2f-b163-15b4ae6bec96&teacherMode=true
MAFS.912.G-GPE.2.7	Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, e.g., using the distance formula.	Foundations of Geometry > Explore Measurements in the Coordinate Plane > Discover > Investigate > Investigation 1 > Calculate Measurements https://app.discoveryeducation.com/learn/techbook/units/711fbdd4-e4a7-4d2f-b163-15b4ae6bec96/concepts/2d4d389b-c9b7-46cf-86ef-89e6879a8091/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b24ef022-051b-4432-9923-62538fcf382f
MAFS.912.G-MG.1.1	Use geometric shapes, their measures, and their properties to describe objects (e.g., modeling a tree trunk or a human torso as a cylinder).	3-D Figures > Develop and Apply Volume Formulas > Discover > Investigate > Investigation 4 > Improve the Tree Model https://app.discoveryeducation.com/learn/techbook/units/3e3ab86f-de69-43db-99bf-0bc6b2947a9f/concepts/d4e72632-c2c9-4ad9-bd48-7825b198447e/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/746b4dde-3469-4061-b916-64a9214f503b

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MAFS.912.G-MG.1.1	Use geometric shapes, their measures, and their properties to describe objects (e.g., modeling a tree trunk or a human torso as a cylinder).	3-D Figures > Investigate Cross-Sections and Rotations > Discover > Investigate > Investigation 2 > Hands-On Activity: Rotating 2-D Objects https://app.discoveryeducation.com/learn/player/01bf69c9-f5db-42f4-a904-4884ab6a9e66
MAFS.912.G-MG.1.1	Use geometric shapes, their measures, and their properties to describe objects (e.g., modeling a tree trunk or a human torso as a cylinder).	3-D Figures > Investigate Cross-Sections and Rotations > Apply #2 https://app.discoveryeducation.com/learn/techbook/units/3e3ab86f-de69-43db-99bf-0bc6b2947a9f/concepts/4bec43d7-4309-4588-b34d-043d3f2bdaec/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/69ca6ea8-2b44-4b2a-acdd-a694dace6c4e
MAFS.912.G-MG.1.2	Apply concepts of density based on area and volume in modeling situations (e.g., persons per square mile, BTUs per cubic foot).	3-D Figures > Develop and Apply Volume Formulas > Discover > Investigate > Investigation 4 > Model a Tree https://app.discoveryeducation.com/learn/techbook/units/3e3ab86f-de69-43db-99bf-0bc6b2947a9f/concepts/d4e72632-c2c9-4ad9-bd48-7825b198447e/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/746b4dde-3469-4061-b916-64a9214f503b
MAFS.912.G-MG.1.2	Apply concepts of density based on area and volume in modeling situations (e.g., persons per square mile, BTUs per cubic foot).	3-D Figures > Develop and Apply Volume Formulas > Discover > Investigate > Investigation 4 > The Price of Wood https://app.discoveryeducation.com/learn/techbook/units/3e3ab86f-de69-43db-99bf-0bc6b2947a9f/concepts/d4e72632-c2c9-4ad9-bd48-7825b198447e/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/746b4dde-3469-4061-b916-64a9214f503b
MAFS.912.G-MG.1.2	Apply concepts of density based on area and volume in modeling situations (e.g., persons per square mile, BTUs per cubic foot).	3-D Figures > Develop and Apply Volume Formulas > Practice > Coach #6 https://app.discoveryeducation.com/core/assessment/coach?practice=0a77e173-4a29-4196-ae93-443637e6b3ff&conceptGuid=d4e72632-c2c9-4ad9-bd48-7825b198447e&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=3e3ab86f-de69-43db-99bf-0bc6b2947a9f&teacherMode=true

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MAFS.912.G-MG.1.3	Apply geometric methods to solve design problems (e.g., designing an object or structure to satisfy physical constraints or minimize cost; working with typographic grid systems based on ratios).	3-D Figures > Investigate Cross-Sections and Rotations > Practice > Coach #11 https://app.discoveryeducation.com/core:assessment/coach?practice=8d648887-9504-47c7-92d5-67b07aaaa15d&conceptGuid=4bec43d7-4309-4588-b34d-043d3f2bdaec&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=3e3ab86f-de69-43db-99bf-0bc6b2947a9f&teacherMode=true
MAFS.912.G-MG.1.3	Apply geometric methods to solve design problems (e.g., designing an object or structure to satisfy physical constraints or minimize cost; working with typographic grid systems based on ratios).	Trigonometry > Investigate Laws of Sines and Cosines > Discover > Investigate > Investigation 2 > A Rocky Road https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/eb4370ba-ab4c-470e-8162-fb06625d26c8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6c3d3ea4-2b79-4316-81fc-4ed61c86de17
MAFS.912.G-MG.1.3	Apply geometric methods to solve design problems (e.g., designing an object or structure to satisfy physical constraints or minimize cost; working with typographic grid systems based on ratios).	Trigonometry > Investigate Right Triangle Trigonometry > Discover > Investigate > Investigation 1 > Interpret the Clues https://app.discoveryeducation.com/core:tools/index/toolname/Geometry#Geometry/asset/da29099a-48d1-4df7-9a49-f89ca97608f3
MAFS.912.G-SRT.1.1.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.	Similarity > Explore Similarity and Dilation > Discover > Investigate > Investigation 1 > Dilation https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/caeff25c-8d28-4b59-bccc-3f68b46612c0/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9c41c311-1d51-41d6-ab4b-619e071360dd

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MAFS.912.G-SRT.1.1.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.	Similarity > Explore Similarity and Dilation > Discover > Investigate > Investigation 1 > Additional Dilation Properties https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/caeff25c-8d28-4b59-bccc-3f68b46612c0/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9c41c311-1d51-41d6-ab4b-619e071360dd
MAFS.912.G-SRT.1.1.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.	Similarity > Explore Similarity and Dilation > Practice > Coach #10 https://app.discoveryeducation.com/core:assessment/coach?practice=9920987b-8f88-45e5-b2f4-6f3364d423cb&conceptGuid=caeff25c-8d28-4b59-bccc-3f68b46612c0&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=1b06bab2-19ea-4ca7-ac50-2afce40b4138&teacherMode=true
MAFS.912.G-SRT.1.1.b	The dilation of a line segment is longer or shorter in the ratio given by the scale factor.	Similarity > Explore Similarity and Dilation > Discover > Investigate > Investigation 3 > Camera Math https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/caeff25c-8d28-4b59-bccc-3f68b46612c0/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f96c7f7e-63ba-4bd1-bbac-9795eed0724d
MAFS.912.G-SRT.1.1.b	The dilation of a line segment is longer or shorter in the ratio given by the scale factor.	Similarity > Explore Similarity and Dilation > Practice > Coach #2 https://app.discoveryeducation.com/core:assessment/coach?practice=9920987b-8f88-45e5-b2f4-6f3364d423cb&conceptGuid=caeff25c-8d28-4b59-bccc-3f68b46612c0&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=1b06bab2-19ea-4ca7-ac50-2afce40b4138&teacherMode=true

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MAFS.912.G-SRT.1.1.b	The dilation of a line segment is longer or shorter in the ratio given by the scale factor.	Similarity > Explore Similarity and Dilation > Practice > Coach #9 https://app.discoveryeducation.com/core:assessment/coach?practice=9920987b-8f88-45e5-b2f4-6f3364d423cb&conceptGuid=caeff25c-8d28-4b59-bccc-3f68b46612c0&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=1b06bab2-19ea-4ca7-ac50-2afce40b4138&teacherMode=true
MAFS.912.G-SRT.1.2	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.	Similarity > Explore Similarity and Dilation > Discover > Investigate > Investigation 3 > Similar Triangles https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/caeff25c-8d28-4b59-bccc-3f68b46612c0/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f96c7f7e-63ba-4bd1-bbac-9795eed0724d
MAFS.912.G-SRT.1.2	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.	Similarity > Explore Similarity and Dilation > Practice > Coach #7 https://app.discoveryeducation.com/core:assessment/coach?practice=9920987b-8f88-45e5-b2f4-6f3364d423cb&conceptGuid=caeff25c-8d28-4b59-bccc-3f68b46612c0&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=1b06bab2-19ea-4ca7-ac50-2afce40b4138&teacherMode=true
MAFS.912.G-SRT.1.2	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.	Similarity > Explore Similarity and Dilation > Apply #2 https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/caeff25c-8d28-4b59-bccc-3f68b46612c0/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/C90CAC1F-FB78-454A-A30D-B6770765B8C7

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MAFS.912.G-SRT.1.3	Use the properties of similarity transformations to establish the AA criterion for two triangles to be similar.	Similarity > Prove Similarity Theorems > Investigate > Investigation 1 > AA Criterion https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/546b3c65-ecce-4726-9991-195be87e0bbc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/deee914b-48e2-42dc-b9c1-d9dda59f15ff
MAFS.912.G-SRT.1.3	Use the properties of similarity transformations to establish the AA criterion for two triangles to be similar.	Similarity > Prove Similarity Theorems > Investigate > Investigation 1 > Triangle Similarity Explore https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/546b3c65-ecce-4726-9991-195be87e0bbc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/deee914b-48e2-42dc-b9c1-d9dda59f15ff
MAFS.912.G-SRT.1.3	Use the properties of similarity transformations to establish the AA criterion for two triangles to be similar.	Similarity > Prove Similarity Theorems > Investigate > Investigation 1 > Hands-on Activity: Similarity Criteria https://app.discoveryeducation.com/learn/player/bf9b8819-3c82-46d4-9b84-b4f7f088f7f6
MAFS.912.G-SRT.2.4	Prove theorems about triangles.	Triangle Geometry > Prove Congruence Theorems > Discover > Investigate > Investigation 3 > Prove the Isosceles Triangle Theorem https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/f0e73cac-0929-465a-abd2-c9991edf3ea9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/53ef2e7d-f17d-4c45-8635-60e5d4c0c5b3

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MAFS.912.G-SRT.2.4	Prove theorems about triangles.	Similarity > Prove Similarity Theorems > Discover > Investigate > Investigation 3 > Prove the Pythagorean Theorem https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/546b3c65-ecec-4726-9991-195be87e0bbc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/0f061af3-c3ce-40dc-9a26-a0602cca4f33
MAFS.912.G-SRT.2.4	Prove theorems about triangles.	Similarity > Prove Similarity Theorems > Discover > Investigate > Investigation 3 > Prove Triangles Similar https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/546b3c65-ecec-4726-9991-195be87e0bbc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/0f061af3-c3ce-40dc-9a26-a0602cca4f33
MAFS.912.G-SRT.2.5	Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures.	Similarity > Prove Similarity Theorems > Discover > Investigate > Investigation 2 > Prove the Theorem https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/546b3c65-ecec-4726-9991-195be87e0bbc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8b9140e8-9501-4382-8159-a2036eff244a
MAFS.912.G-SRT.2.5	Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures.	Similarity > Prove Similarity Theorems > Discover > Investigate > Extension 1 > Prove Congruence https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/546b3c65-ecec-4726-9991-195be87e0bbc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7e2fc29f-7066-4cd5-a22b-be243a3aee8d

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MAFS.912.G-SRT.2.5	Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures.	Triangle Geometry > Prove Congruence Theorems > Discover > Investigate > Investigation 3 > The Forum Building https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/f0e73cac-0929-465a-abd2-c9991edf3ea9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/53ef2e7d-f17d-4c45-8635-60e5d4c0c5b3
MAFS.912.G-SRT.3.6	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.	Trigonometry > Investigate Right Triangle Trigonometry > Discover > Investigate > Investigation 2 > Observations https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/b8bfa37f-50c8-4082-a216-a9601e8765ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/274e0471-5647-4bda-bd7f-2d2f67f47ffe
MAFS.912.G-SRT.3.6	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.	Trigonometry > Investigate Right Triangle Trigonometry > Practice > Coach #6 https://app.discoveryeducation.com/core:assessment/coach?practice=466d03e4-ce52-4536-88f2-7c959898950f&conceptGuid=b8bfa37f-50c8-4082-a216-a9601e8765ef&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=5414c10d-648f-4838-b6fe-9020dc5762ac&teacherMode=true
MAFS.912.G-SRT.3.6	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.	Trigonometry > Investigate Right Triangle Trigonometry > Practice > Coach #10 https://app.discoveryeducation.com/core:assessment/coach?practice=466d03e4-ce52-4536-88f2-7c959898950f&conceptGuid=b8bfa37f-50c8-4082-a216-a9601e8765ef&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=5414c10d-648f-4838-b6fe-9020dc5762ac&teacherMode=true

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MAFS.912.G-SRT.3.7	Explain and use the relationship between the sine and cosine of complementary angles.	Trigonometry > Investigate Right Triangle Trigonometry > Practice > Coach #6 https://app.discoveryeducation.com/core:assessment/coach?practice=466d03e4-ce52-4536-88f2-7c959898950f&conceptGuid=b8bfa37f-50c8-4082-a216-a9601e8765ef&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=5414c10d-648f-4838-b6fe-9020dc5762ac&teacherMode=true
MAFS.912.G-SRT.3.7	Explain and use the relationship between the sine and cosine of complementary angles.	Trigonometry > Investigate Right Triangle Trigonometry > Practice > Coach #12 https://app.discoveryeducation.com/core:assessment/coach?practice=466d03e4-ce52-4536-88f2-7c959898950f&conceptGuid=b8bfa37f-50c8-4082-a216-a9601e8765ef&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=5414c10d-648f-4838-b6fe-9020dc5762ac&teacherMode=true
MAFS.912.G-SRT.3.7	Explain and use the relationship between the sine and cosine of complementary angles.	Trigonometry > Investigate Right Triangle Trigonometry > Discover > Investigate > Investigation 2 > Triangle Data Collector: Overview https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/b8bfa37f-50c8-4082-a216-a9601e8765ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/274e0471-5647-4bda-bd7f-2d2f67f47ffe
MAFS.912.G-SRT.3.8	Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.	Trigonometry > Investigate Right Triangle Trigonometry > Discover > Investigate > Investigation 3 > Find the Distance https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/b8bfa37f-50c8-4082-a216-a9601e8765ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/af5306e5-aa4b-486d-8765-aaa978b5436f

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MAFS.912.G-SRT.3.8	Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.	Trigonometry > Investigate Right Triangle Trigonometry > Discover > Investigate > Investigation 2 > Lost! https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/b8bfa37f-50c8-4082-a216-a9601e8765ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/274e0471-5647-4bda-bd7f-2d2f67f47ffe
MAFS.912.G-SRT.3.8	Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.	Trigonometry > Investigate Right Triangle Trigonometry > Discover > Investigate > Investigation 3 > Another Perspective https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/b8bfa37f-50c8-4082-a216-a9601e8765ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/af5306e5-aa4b-486d-8765-aaa978b5436f
MAFS.912.G-SRT.4.10	Prove the Laws of Sines and Cosines and use them to solve problems.	Trigonometry > Investigate Laws of Sines and Cosines > Practice > Coach #1 https://app.discoveryeducation.com/core:assessment/coach?practice=5e5cdc5d-37fa-4b3e-86a0-0dd33561a639&conceptGuid=eb4370ba-ab4c-470e-8162-fb06625d26c8&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=5414c10d-648f-4838-b6fe-9020dc5762ac&teacherMode=true
MAFS.912.G-SRT.4.10	Prove the Laws of Sines and Cosines and use them to solve problems.	Trigonometry > Investigate Laws of Sines and Cosines > Discover > Investigate > Investigation 1 > Going the Distance https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/eb4370ba-ab4c-470e-8162-fb06625d26c8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6f083871-d5a6-48ae-b7aa-f248f99ddb30

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MAFS.912.G-SRT.4.10	Prove the Laws of Sines and Cosines and use them to solve problems.	Trigonometry > Investigate Laws of Sines and Cosines > Practice > Coach #2 https://app.discoveryeducation.com/core:assessment/coach?practice=5e5cdc5d-37fa-4b3e-86a0-0dd33561a639&conceptGuid=eb4370ba-ab4c-470e-8162-fb06625d26c8&courseGuid=cda824af-1452-4479-bf94-c65765635450&unitGuid=5414c10d-648f-4838-b6fe-9020dc5762ac&teacherMode=true
MAFS.912.G-SRT.4.11	Understand and apply the Law of Sines and the Law of Cosines to find unknown measurements in right and non-right triangles (e.g., surveying problems, resultant forces).	Trigonometry > Investigate Laws of Sines and Cosines > Discover > Investigate > Investigation 1 > One Step at a Time https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/eb4370ba-ab4c-470e-8162-fb06625d26c8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6f083871-d5a6-48ae-b7aa-f248f99ddb30
MAFS.912.G-SRT.4.11	Understand and apply the Law of Sines and the Law of Cosines to find unknown measurements in right and non-right triangles (e.g., surveying problems, resultant forces).	Trigonometry > Investigate Laws of Sines and Cosines > Discover > Investigate > Investigation 2 > Law of Cosines: Explore https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/eb4370ba-ab4c-470e-8162-fb06625d26c8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6c3d3ea4-2b79-4316-81fc-4ed61c86de17
MAFS.912.G-SRT.4.11	Understand and apply the Law of Sines and the Law of Cosines to find unknown measurements in right and non-right triangles (e.g., surveying problems, resultant forces).	Trigonometry > Investigate Laws of Sines and Cosines > Discover > Investigate > Investigation 5 > Help the Director https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/eb4370ba-ab4c-470e-8162-fb06625d26c8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/73e6360f-c5c7-493f-9ba0-9d2e7cdcc9a4

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MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Trigonometry > Investigate Laws of Sines and Cosines > Discover > Investigate > Investigation 3 > Law of Sines - The Ambiguous Case https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/eb4370ba-ab4c-470e-8162-fb06625d26c8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3ef7bea4-5a13-4e77-b2e4-70ebe2934f04
MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Intersecting Lines > Prove Theorems about Lines and Angles > Discover > Investigate > Investigation 3 > Apply a Postulate https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/e142055e-26cc-4b0a-8d71-b641a5dda568/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/15354dcf-c475-432d-b71f-48e9f7fcb3c
MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Triangles and Circles > Investigate Concurrency in Triangles > Discover > Investigate > Investigation 1 > Identify the Center https://app.discoveryeducation.com/learn/techbook/units/6ddff506-7777-47a4-8e06-b8f78cca2c32/concepts/97cfee3f-070b-497c-902f-472460ce91d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6fd88760-1b7d-4fd5-bd89-b21e9f2274db
MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Trigonometry > Investigate Laws of Sines and Cosines > Discover > Investigate > Investigation 4 > Solving the Ambiguous Case https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/eb4370ba-ab4c-470e-8162-fb06625d26c8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ea56d458-8767-400d-8c96-a1ce1b21aa10

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MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	3-D Figures > Investigate Cross-Sections and Rotations > Investigate > Extension 2 > Fair Dice https://app.discoveryeducation.com/learn/techbook/units/3e3ab86f-de69-43db-99bf-0bc6b2947a9f/concepts/4bec43d7-4309-4588-b34d-043d3f2bdaec/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1eea7b83-ca2b-44cf-81f7-22d6680d996b
MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Interesting Lines > Explore Parallel and Perpendicular Lines > Discover > Investigate > Extension https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/ec4e23e1-4f89-43e5-99ae-2b9eaa937c6d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/479459fb-7da1-443a-bce1-d263c29933de
MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Similarity > Prove Similarity Theorems > Discover > Investigate > Investigation 3 > Pythagoras's New Clothes https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/546b3c65-ecec-4726-9991-195be87e0bbc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/0f061af3-c3ce-40dc-9a26-a0602cca4f33
MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Similarity > Explore Similarity and Dilations > Discover > Investigate > Investigation 3 > Similar Triangles https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/caeff25c-8d28-4b59-bccc-3f68b46612c0/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f96c7f7e-63ba-4bd1-bbac-9795eed0724d

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MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Intersecting Lines > Prove Theorems about Lines and Angles > Discover > Investigate > Investigation 1 > Write a Proof https://app.discoveryeducation.com/learn/techbook/units/bf978799-3cd6-4106-affe-9e01fe09d191/concepts/e142055e-26cc-4b0a-8d71-b641a5dda568/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4b574193-1e80-49d1-b17a-5dfbd48a19c1
MAFS.K12.MP.4.1	Model with mathematics.	3-D Figures > Develop and Apply Volume Formulas > Discover > Investigate > Investigation 5 > Cassidy's Design https://app.discoveryeducation.com/learn/techbook/units/3e3ab86f-de69-43db-99bf-0bc6b2947a9f/concepts/d4e72632-c2c9-4ad9-bd48-7825b198447e/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c0c7b019-e409-4b1d-8c0c-c3f1abd1022f
MAFS.K12.MP.4.1	Model with mathematics.	Triangles and Circles > Investigate Concurrency in Triangles > Engage https://app.discoveryeducation.com/learn/techbook/units/6DDFF506-7777-47A4-8E06-B8F78CCA2C32/concepts/97CFEE3F-070B-497C-902F-472460CE91D1
MAFS.K12.MP.4.1	Model with mathematics.	Similarity > Prove Similarity Theorems > Discover > Investigate > Investigation 4 > Measuring the Unreachable https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/546b3c65-ecce-4726-9991-195be87e0bbc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f3e0c7e4-e9ef-4ebb-9e5f-83ce2905a494

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MAFS.K12.MP.5.1	Use appropriate tools strategically.	Triangle Geometry > Construct Special Triangles and Angles > Discover > Investigate > Investigation 1 > Describe the Construction https://app.discoveryeducation.com/learn/techbook/units/5a7c61bd-ba5d-4590-a295-f91627289e2a/concepts/5e2baae7-9c25-4ad2-8140-95c9c40e99f4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/92cfc1a6-4c6c-41ef-8894-58477e8b193d
MAFS.K12.MP.5.1	Use appropriate tools strategically.	Intersecting Lines > Explore Parallel and Perpendicular Lines > Discover > Investigate > Investigation 3 > Constructions https://app.discoveryeducation.com/core:tools/index/toolname/Geometry#Geometry/asset/09980829-5b02-4e8e-af11-d52e4dbd48a3
MAFS.K12.MP.5.1	Use appropriate tools strategically.	Intersecting Lines > Prove Theorems about Lines and Angles > Discover > Investigate > Extension > Rectangle https://app.discoveryeducation.com/core:tools/index/toolname/Geometry#Geometry/asset/13EB517F-8115-46E7-9ABA-9AEBB2F86B99
MAFS.K12.MP.6.1	Attend to precision.	Triangles and Circles > Investigate Concurrency in Triangles > Discover > Investigate > Investigation 2 > Kayhla's Claim https://app.discoveryeducation.com/learn/techbook/units/6ddff506-7777-47a4-8e06-b8f78cca2c32/concepts/97cfee3f-070b-497c-902f-472460ce91d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/dab34e51-da0a-46ff-a458-c253701a48d8
MAFS.K12.MP.6.1	Attend to precision.	Triangles and Circles > Investigate Concurrency in Triangles > Extension 1 > Challenge https://app.discoveryeducation.com/learn/techbook/units/6ddff506-7777-47a4-8e06-b8f78cca2c32/concepts/97cfee3f-070b-497c-902f-472460ce91d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f7dfab16-c758-4790-aacb-72a98be45a45

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MAFS.K12.MP.6.1	Attend to precision.	Triangles and Circles > Investigate Concurrency in Triangles > Extension 1 > Euler Line https://app.discoveryeducation.com/learn/techbook/units/6ddff506-7777-47a4-8e06-b8f78cca2c32/concepts/97cfee3f-070b-497c-902f-472460ce91d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f7dfab16-c758-4790-aacb-72a98be45a45
MAFS.K12.MP.7.1	Look for and make use of structure.	Trigonometry > Investigate Laws of Sines and Cosines > Discover > Investigate > Investigation 2 > Complete the Proof https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/eb4370ba-ab4c-470e-8162-fb06625d26c8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6c3d3ea4-2b79-4316-81fc-4ed61c86de17
MAFS.K12.MP.7.1	Look for and make use of structure.	Triangles and Circles > Investigate Concurrency in Triangles > Discover > Investigate > Investigation 4 > isosceles Triangle https://app.discoveryeducation.com/learn/techbook/units/6ddff506-7777-47a4-8e06-b8f78cca2c32/concepts/97cfee3f-070b-497c-902f-472460ce91d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8294b5a3-6ad3-4fad-8963-22ba74c50dc6
MAFS.K12.MP.7.1	Look for and make use of structure.	Trigonometry > Investigate Right Triangle Trigonometry > Extension > Nearing the Finish https://app.discoveryeducation.com/learn/techbook/units/5414c10d-648f-4838-b6fe-9020dc5762ac/concepts/b8bfa37f-50c8-4082-a216-a9601e8765ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1d8d856f-9db0-4e69-8f8d-9018040824bd

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MAFS.K12.MP.8.1	Look for and express regularity in repeated reasoning.	Similarity > Explore Similarity and Dilations > Discover > Investigate > Extension > Find the Rule https://app.discoveryeducation.com/learn/techbook/units/1b06bab2-19ea-4ca7-ac50-2afce40b4138/concepts/caeff25c-8d28-4b59-bccc-3f68b46612c0/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9121ca35-5eae-4aa7-8e52-c884027ca737
MAFS.K12.MP.8.1	Look for and express regularity in repeated reasoning.	3-D Figures > Develop and Apply Volume Formulas > Discover > Investigate > Investigation 3 > Conclusion https://app.discoveryeducation.com/learn/techbook/units/3e3ab86f-de69-43db-99bf-0bc6b2947a9f/concepts/d4e72632-c2c9-4ad9-bd48-7825b198447e/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a640a997-5bd7-4ea4-bdc7-ba843c15680d
MAFS.K12.MP.8.1	Look for and express regularity in repeated reasoning.	Triangles and Circles > Investigate Concurrency in Triangles > Discover > Investigate > Investigation 2 > Triangles with Equal Areas https://app.discoveryeducation.com/learn/techbook/units/6ddff506-7777-47a4-8e06-b8f78cca2c32/concepts/97cfee3f-070b-497c-902f-472460ce91d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/dab34e51-da0a-46ff-a458-c253701a48d8