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COURSE CODE:	1200340
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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.	Exponents and Logarithms > Model Exponential Growth and Decay > Discover > Investigate > Investigation 3: Compound Interest and Discovering the Value of e https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4b8f866c-8152-4954-88b5-61b72e1714b7/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1f38fd04-467d-4e4a-a1ef-cecac1700d8a
ELD.K12.ELL.MA.1	English language learners communicate information, ideas and concepts necessary for academic success in the content area of Mathematics.	Rational Functions > Represent Rational Functions > Apply > Apply 1: How Can You Help? https://app.discoveryeducation.com/learn/techbook/units/8101a78f-a710-402f-ab72-62f095a02e4c/concepts/e1d46969-9be8-479c-9b48-846cf49e693d/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/D9A8D618-3C13-425C-A0C0-5C16EF58D1AA

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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.	Exponents and Logarithms > Represent Exponential Functions > Discover > Engage: Viral Videos https://app.discoveryeducation.com/learn/techbook/units/CF8B8387-94AA-4C91-AAE6-9392338C16D0/concepts/EF90653B-9A67-4BC3-8516-95295EA9B528
ELD.K12.ELL.SI.1	English language learners communicate for social and instructional purposes within the school setting.	Real and Complex Solutions > Analyze Radical Functions > Apply > Apply 2: How Do Two Different-Size People Walk Together? https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/0383e05b-88ae-4325-a643-8ce2855f48ad/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/B78FB871-D868-4A56-AD1B-AAF0B6F59AC1
ELD.K12.ELL.SI.1	English language learners communicate for social and instructional purposes within the school setting.	Multivariate Equations and Inequalities > Investigate Linear Systems > Discover > Investigate > Investigation 3: Galactic Mining https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/f1375335-93c1-4fee-99a9-59bec0728eda/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/fd67b734-7bb1-4315-a64e-d11273f8b729
ELD.K12.ELL.SI.1	English language learners communicate for social and instructional purposes within the school setting.	Exponents and Logarithms > Represent Exponential Functions > Discover > Engage: Viral Videos https://app.discoveryeducation.com/learn/techbook/units/CF8B8387-94AA-4C91-AAE6-9392338C16D0/concepts/EF90653B-9A67-4BC3-8516-95295EA9B528
LAFS.1112.RST.1.3	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate> Investigation 3: Sample Proportions https://app.discoveryeducation.com/learn/techbook/units/952549ae-369f-4b9a-a58c-4ada0a987949/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/15f2d380-da3d-40e2-bb87-d9ab34398df5

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LAFS.1112.RST.1.3	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.	Recursive, Explicit, and Inverse Functions > Explore Inverse Functions > Discover > Investigate > Investigation 3: Function Machine https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/e3a4e796-36f9-4e66-9e5c-1c32a1f81d79/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b4739e4c-020a-4e35-9840-45a4a2a36d6d
LAFS.1112.RST.1.3	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.	Exponents and Logarithms > Model Exponential Growth and Decay > Discover > Investigate > Investigation 4: Continuously Compounded Interest https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4b8f866c-8152-4954-88b5-61b72e1714b7/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9c9e5aad-ba8b-4764-8203-909de46b2483
LAFS.1112.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 11–12 texts and topics.	Rational Functions > Represent Rational Functions > Discover > Engage: Small Doses https://app.discoveryeducation.com/learn/techbook/units/8101A78F-A710-402F-AB72-62F095A02E4C/concepts/92C339FC-43A8-49B4-8437-93A750960F14
LAFS.1112.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 11–12 texts and topics.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Apply > Apply 1: How Do Animators Use Complex Numbers to Create Movement? https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/2EC9E737-5FDB-4740-9C53-EC88A40B4358

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LAFS.1112.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 11–12 texts and topics.	Trigonometry > Represent Trigonometric Functions > Discover > Investigate > Investigation 2: Periodic Behavior https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d8fc0e78-f33c-418c-a238-dba55b928e13/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b699772a-70ed-4a0c-8238-250513de4dae
LAFS.1112.RST.3.7	Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.	Data Modeling > Explore Normal Distributions > Apply > Apply 2: Which Score Is Better? https://app.discoveryeducation.com/learn/techbook/units/952549ae-369f-4b9a-a58c-4ada0a987949/concepts/c81f9baf-b68e-436e-89bc-ae9853ba87a7/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/64CEB9FF-5012-4DA1-9459-E6C0DE6A2D15
LAFS.1112.RST.3.7	Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.	Trigonometry > Apply Trigonmetric Relationships > Apply > Apply 1: How Can You Determine the Function Needed to Cancel Background Noise? https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d9a634ea-e02e-4830-aeb7-fca52a5fdb1d/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/EE8ED98B-D9D7-4F68-A154-6330319D75F6
LAFS.1112.RST.3.7	Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Apply > Apply 1: How Many Letters Are in an Average Word? https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/CD6B1E44-643B-4DFE-A732-68088850C2DA

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LAFS.1112.WHST.1.1.a	a. Introduce precise, knowledgeable claim(s), establish the significance of the claim(s), distinguish the claim(s) from alternate or opposing claims, and create an organization that logically sequences the claim(s), counterclaims, reasons, and evidence.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate> Investigation 5: Observational Study vs Experiment https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/913a2aef-7ba5-4532-b538-0709ea5ee330
LAFS.1112.WHST.1.1.a	a. Introduce precise, knowledgeable claim(s), establish the significance of the claim(s), distinguish the claim(s) from alternate or opposing claims, and create an organization that logically sequences the claim(s), counterclaims, reasons, and evidence.	Trigonometry > Apply Trigonometric Relationships > Apply > Apply 2: How Can Functions Help You Predict Your Own Emotional State? https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d9a634ea-e02e-4830-aeb7-fca52a5fdb1d/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/48E12E1F-EC5B-4601-A46D-EA07B5C9088A
LAFS.1112.WHST.1.1.a	a. Introduce precise, knowledgeable claim(s), establish the significance of the claim(s), distinguish the claim(s) from alternate or opposing claims, and create an organization that logically sequences the claim(s), counterclaims, reasons, and evidence.	Probability > Explore Conditional Probability > Apply > Apply 1: Who Has the Best On-Time Record? https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/7be3aea6-9ea4-4e6f-bd1c-2188b90017a9/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/E70EEB8D-90AC-4FB5-8ABE-3CB0456EED49
LAFS.1112.WHST.1.1.b	b. Develop claim(s) and counterclaims fairly and thoroughly, supplying the most relevant data and evidence for each while pointing out the strengths and limitations of both claim(s) and counterclaims in a discipline-appropriate form that anticipates the audience's knowledge level, concerns, values, and possible biases.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate > Investigation 1: Statistical Sampling Methods https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f7a38e1e-273b-4832-9609-19e3ffba0370

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LAFS.1112.WHST.1.1.b	b. Develop claim(s) and counterclaims fairly and thoroughly, supplying the most relevant data and evidence for each while pointing out the strengths and limitations of both claim(s) and counterclaims in a discipline-appropriate form that anticipates the audience's knowledge level, concerns, values, and possible biases.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate> Investigation 3: Sample Proportions https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/15f2d380-da3d-40e2-bb87-d9ab34398df5
LAFS.1112.WHST.1.1.b	b. Develop claim(s) and counterclaims fairly and thoroughly, supplying the most relevant data and evidence for each while pointing out the strengths and limitations of both claim(s) and counterclaims in a discipline-appropriate form that anticipates the audience's knowledge level, concerns, values, and possible biases.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate> Investigation 5: Observational Study vs Experiment https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/913a2aef-7ba5-4532-b538-0709ea5ee330
LAFS.1112.WHST.1.1.c	c. Use words, phrases, and clauses as well as varied syntax 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.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate> Investigation 3: Sample Proportions https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/15f2d380-da3d-40e2-bb87-d9ab34398df5
LAFS.1112.WHST.1.1.c	c. Use words, phrases, and clauses as well as varied syntax 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.	Probability > Explore Conditional Probability > Discover > Investigate > Investigation 1: Switch or Stay? > Hands-On-Activity: The Monty Hall Problem https://app.discoveryeducation.com/learn/player/c1f4b53f-9bee-47f3-b72e-d74e1b858303
LAFS.1112.WHST.1.1.c	c. Use words, phrases, and clauses as well as varied syntax 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.	Probability > Explore Conditional Probability > Apply > Apply 1: Who Has the Best On-Time Record? https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/7be3aea6-9ea4-4e6f-bd1c-2188b90017a9/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/E70EEB8D-90AC-4FB5-8ABE-3CB0456EED49

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LAFS.1112.WHST.1.1.d	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.	Trigonometry > Apply Trigonometric Relationships > Apply > Apply 2: How Can Functions Help You Predict Your Own Emotional State? https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d9a634ea-e02e-4830-aeb7-fca52a5fdb1d/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/48E12E1F-EC5B-4601-A46D-EA07B5C9088A
LAFS.1112.WHST.1.1.d	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.	Trigonometry > Represent Trigonometric Functions > Apply > Apply 1: How Can Math Make You a Better Musician? https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d8fc0e78-f33c-418c-a238-dba55b928e13/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/3af6d215-7296-4ef5-9ade-267c492dacbb
LAFS.1112.WHST.1.1.d	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.	Recursive, Explicit, and Inverse Functions > Explore Inverse Functions > Apply > Apply 2: How Big Would a Balloon Get with 50 Breaths? https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/e3a4e796-36f9-4e66-9e5c-1c32a1f81d79/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/ca3015c2-2a35-4f40-a9fb-c161007ff808
LAFS.1112.WHST.1.1.e	e. Provide a concluding statement or section that follows from or supports the argument presented.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Apply > Apply 2: Can You Trust the Polls? https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/092f73e2-f034-4582-9976-47b6d566b642

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LAFS.1112.WHST.1.1.e	e. Provide a concluding statement or section that follows from or supports the argument presented.	Trigonometry > Represent Trigonometric Functions > Apply > Apply 2: Tide Height https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d8fc0e78-f33c-418c-a238-dba55b928e13/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/359B2215-247B-453E-8317-911FDAD5E1FA
LAFS.1112.WHST.1.1.e	e. Provide a concluding statement or section that follows from or supports the argument presented.	Data Modeling > Explore Normal Distributions > Apply > Apply 3: How Normal Are Basketball Statistics? https://app.discoveryeducation.com/learn/techbook/units/952549ae-369f-4b9a-a58c-4ada0a987949/concepts/c81f9baf-b68e-436e-89bc-ae9853ba87a7/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/B08ECC96-7517-477A-A6E9-00B5B4C8BCA8
LAFS.1112.WHST.2.4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Exponents and Logarithms > Model Exponential Growth and Decay > Apply > Apply 1 > How Likely Are You to See a Wolf When Visiting Yellowstone National Park? https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4b8f866c-8152-4954-88b5-61b72e1714b7/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/D0ABA5DD-1016-4E47-95B9-65B34CFB1E5A
LAFS.1112.WHST.2.4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Data Modeling > Explore Normal Distributions > Apply > Apply 3: How Normal Are Basketball Statistics? https://app.discoveryeducation.com/learn/techbook/units/952549ae-369f-4b9a-a58c-4ada0a987949/concepts/c81f9baf-b68e-436e-89bc-ae9853ba87a7/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/B08ECC96-7517-477A-A6E9-00B5B4C8BCA8
LAFS.1112.WHST.2.4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Multivariate Equations and Inequalities > Investigate Linear Systems > Apply > Apply 2: What Is the Best Car to Buy? https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/f1375335-93c1-4fee-99a9-59bec0728ed

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LAFS.1112.WHST.3.9	Draw evidence from informational texts to support analysis, reflection, and research.	Trigonometry > Apply Trigonometric Relationships > Apply > Apply 2: How Can Functions Help You Predict Your Own Emotional State? https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d9a634ea-e02e-4830-aeb7-fca52a5fdb1d/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/48E12E1F-EC5B-4601-A46D-EA07B5C9088A
LAFS.1112.WHST.3.9	Draw evidence from informational texts to support analysis, reflection, and research.	Exponents and Logarithms > Model Exponential Growth and Decay > Apply > Apply 1 > How Likely Are You to See a Wolf When Visiting Yellowstone National Park? https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4b8f866c-8152-4954-88b5-61b72e1714b7/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/D0ABA5DD-1016-4E47-95B9-65B34CFB1E5A
LAFS.1112.WHST.3.9	Draw evidence from informational texts to support analysis, reflection, and research.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Apply > Apply 1: How Many Letters Are in an Average Word? https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/CD6B1E44-643B-4DFE-A732-68088850C2DA
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.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate> Investigation 3: Sample Proportions https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/15f2d380-da3d-40e2-bb87-d9ab34398df5

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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.	Multivariate Equations and Inequalities > Investigate Linear Systems > Discover > Investigate > Investigation 3: Galactic Mining https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/f1375335-93c1-4fee-99a9
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.	Probability > Apply the Rules of Probability > Discover > Investigate > Investigation 2: Medical Tests https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/262f772a-4fb6-4179-917c-b9aa940cefd8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8da1828e-f3fe-453e-83b1-f7c4ca5e74d4
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.	Probability > Explore Conditional Probability > Discover > Investigate > Investigation 1: Switch or Stay? > Hands-On-Activity: The Monty Hall Problem https://app.discoveryeducation.com/learn/player/c1f4b53f-9bee-47f3-b72e-d74e1b858303
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.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Engage: Phone Contest https://app.discoveryeducation.com/learn/techbook/units/952549AE-369F-4B9A-A58C-4ADA0A987949/concepts/56DB900E-880D-4AD7-9D77-AA44449CD92A
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.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate> Investigation 5: Observational Study vs Experiment https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/913a2aef-7ba5-4532-b538-0709ea5ee330

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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.	Probability > Apply the Rules of Probability > Discover > Investigate > Investigation 2: Medical Tests https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/262f772a-4fb6-4179-917c-b9aa940cefd8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8da1828e-f3fe-453e-83b1-f7c4ca5e74d4
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.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate> Investigation 3: Sample Proportions https://app.discoveryeducation.com/learn/techbook/units/952549ae-369f-4b9a-a58c-4ada0a987949/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/15f2d380-da3d-40e2-bb87-d9ab34398df5
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.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate> Investigation 5: Observational Study vs Experiment https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/913a2aef-7ba5-4532-b538-0709ea5ee330
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.	Probability > Explore Conditional Probability > Discover > Engage: How Likely Is It? https://app.discoveryeducation.com/learn/techbook/units/BA345A88-5F0A-4BF9-89EF-52745E636826/concepts/7BE3AEA6-9EA4-4E6F-BD1C-2188B90017A9
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.	Probability > Apply the Rules of Probability > Discover > Engage: Pick a Card https://app.discoveryeducation.com/learn/techbook/units/BA345A88-5F0A-4BF9-89EF-52745E636826/concepts/262F772A-4FB6-4179-917C-B9AA940CEFD8

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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.	Multivariate Equations and Inequalities > Investigate Linear Systems > Discover > Investigate > Investigation 2: Is It Feasible? https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/f1375335-93c1-4fee-99a9-59bec0728eda/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/183176c4-3ad1-44cf-a7f0-193de9759938
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.	Trigonometry > Apply Trigonometric Relationships > Apply > Apply 2: How Can Functions Help You Predict Your Own Emotional State? https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d9a634ea-e02e-4830-aeb7-fca52a5fdb1d/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/48E12E1F-EC5B-4601-A46D-EA07B5C9088A
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.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate> Investigation 1: Statistical Sampling Methods https://app.discoveryeducation.com/learn/techbook/units/952549ae-369f-4b9a-a58c-4ada0a987949/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f7a38e1e-273b-4832-9609-19e3ffba0370
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.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Engage: Phone Contest https://app.discoveryeducation.com/learn/techbook/units/952549AE-369F-4B9A-A58C-4ADA0A987949/concepts/56DB900E-880D-4AD7-9D77-AA44449CD92A
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.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Engage: Phone Contest https://app.discoveryeducation.com/learn/techbook/units/952549AE-369F-4B9A-A58C-4ADA0A987949/concepts/56DB900E-880D-4AD7-9D77-AA44449CD92A

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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.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate> Investigation 3: Sample Proportions https://app.discoveryeducation.com/learn/techbook/units/952549ae-369f-4b9a-a58c-4ada0a987949/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/15f2d380-da3d-40e2-bb87-d9ab34398df5
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.	Rational Functions > Compare Rational Functions > Discover > Engage: Analyzing Rational Function Applications https://app.discoveryeducation.com/learn/techbook/units/8101a78f-a710-402f-ab72-62f095a02e4c/concepts/e1d46969-9be8-479c-9b48-846cf49e693d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a
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.	Multivariate Equations and Inequalities > Investigate Linear Systems > Apply > Apply 2: What Is the Best Car to Buy? https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/f1375335-93c1-4fee-99a9-59bec0728eda/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/ACA4AF86-4954-4319-A8E9-A13BFD85781C
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.	Exponents and Logarithms > Model Exponential Growth and Decay > Apply > Apply 1 > How Likely Are You to See a Wolf When Visiting Yellowstone National Park? https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4b8f866c-8152-4954-88b5-61b72e1714b7/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/D0ABA5DD-1016-4E47-95B9-65B34CFB1E5A

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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.	Rational Functions > Represent Rational Functions > Apply > Apply 1: How Can You Help? https://app.discoveryeducation.com/learn/techbook/units/8101a78f-a710-402f-ab72-62f095a02e4c/concepts/e1d46969-9be8-479c-9b48-846cf49e693d/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/D9A8D618-3C13-425C-A0C0-5C16EF58D1AA
MAFS.912.A-APR.1.1	Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.	Polynomial Expressions and Equations > Operate with Polynomials > Discover > Investigate > Investigation 1: Model with Polynomials https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/0ca385ae-f910-445d-9cd8-6efea3dca7ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/908f7459-2b88-42f9-bc8b-cb915006f057
MAFS.912.A-APR.1.1	Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.	Polynomial Expressions and Equations > Operate with Polynomials > Discover > Investigate > Investigation 3: Factoring Cubes https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/0ca385ae-f910-445d-9cd8-6efea3dca7ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/bb1ee8e8-5e97-48f6-89a3-927cfb110983
MAFS.912.A-APR.1.1	Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.	Polynomial Expressions and Equations > Operate with Polynomials > Discover > Investigate > Investigation 4: Building Pascal's Triangle https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/0ca385ae-f910-445d-9cd8-6efea3dca7ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2af5a5d5-622b-4539-960b-dda800b68bec

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MAFS.912.A-APR.2.2	Know and apply the Remainder Theorem: For a polynomial p(x) and a number a, the remainder on division by x – a is p(a), so p(a) = 0 if and only if (x – a) is a factor of p(x).	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 6: Quadratic Equations and Their Roots https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5fe633d7-09d8-457b-8725-3f153f86adce
MAFS.912.A-APR.2.2	Know and apply the Remainder Theorem: For a polynomial p(x) and a number a, the remainder on division by x – a is p(a), so p(a) = 0 if and only if (x – a) is a factor of p(x).	Polynomial Expressions and Equations > Operate with Polynomials > Discover > Investigate > Investigation 2: Factoring with Quadratic Techniques https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/0ca385ae-f910-445d-9cd8-6efea3dca7ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3c1fb2bc-10bd-40f9-9bde-242d2dade8a4
MAFS.912.A-APR.2.2	Know and apply the Remainder Theorem: For a polynomial p(x) and a number a, the remainder on division by x – a is p(a), so p(a) = 0 if and only if (x – a) is a factor of p(x).	Polynomial Expressions and Equations > Explore Polynomial Factors > Discover > Investigate > Investigation 2: Using Long Division to Find Roots https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/24be8e11-e09d-4065-87a8-a17b50282a13/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c7afe8a8-8753-4392-b55a-6bba8a89bc45
MAFS.912.A-APR.2.3	Identify zeros of polynomials when suitable factorizations are available, and use the zeros to construct a rough graph of the function defined by the polynomial.	Polynomial Expressions and Equations > Analyze Polynomial Functions > Discover > Investigate > Investigation 4: Examine and Graph Polynomials https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/b836d41e-298c-4fd2-a60c-fec8793bf48a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a29ce47c-feb6-49ad-a086-952fd3ddd0fb

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MAFS.912.A-APR.2.3	Identify zeros of polynomials when suitable factorizations are available, and use the zeros to construct a rough graph of the function defined by the polynomial.	Polynomial Expressions and Equations > Analyze Polynomial Functions > Discover > Investigate > Investigation 3: Graph That Box https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/b836d41e-298c-4fd2-a60c-fec8793bf48a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7638795c-8af0-4917-a434-ae8446140239
MAFS.912.A-APR.2.3	Identify zeros of polynomials when suitable factorizations are available, and use the zeros to construct a rough graph of the function defined by the polynomial.	Polynomial Expressions and Equations > Analyze Polynomial Functions > Discover > Investigate > Investigation 2: Write the Equation of a Polynomial https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/b836d41e-298c-4fd2-a60c-fec8793bf48a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/225d5ff3-b774-4c54-a241-b6a6fd1f6e5f
MAFS.912.A-APR.3.4	Prove polynomial identities and use them to describe numerical relationships.	Polynomial Expressions and Equations > Operate with Polynomials > Discover > Investigate > Investigation 3: Factoring Cubes https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/0ca385ae-f910-445d-9cd8-6efea3dca7ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/bb1ee8e8-5e97-48f6-89a3-927cfb110983
MAFS.912.A-APR.3.4	Prove polynomial identities and use them to describe numerical relationships.	Polynomial Expressions and Equations > Operate with Polynomials > Discover > Investigate > Investigation 2: Factoring with Quadratic Techniques https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/0ca385ae-f910-445d-9cd8-6efea3dca7ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3c1fb2bc-10bd-40f9-9bde-242d2dade8a4

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MAFS.912.A-APR.3.5	Know and apply the Binomial Theorem for the expansion of (x in powers of x and y for a positive integer n, where x and y are any numbers, with coefficients determined for example by Pascal's Triangle.	Polynomial Expressions and Equations > Operate with Polynomials > Discover > Investigate > Investigation 4: Building Pascal's Triangle https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/0ca385ae-f910-445d-9cd8-6efea3dca7ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2af5a5d5-622b-4539-960b-dda800b68bec
MAFS.912.A-APR.3.5	Know and apply the Binomial Theorem for the expansion of (x in powers of x and y for a positive integer n, where x and y are any numbers, with coefficients determined for example by Pascal's Triangle.	Polynomial Expressions and Equations > Operate with Polynomials > Discover > Investigate > Extension: Deriving the Binomial Theorem https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/0ca385ae-f910-445d-9cd8-6efea3dca7ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ab043725-1993-4853-ba02-af305652196c
MAFS.912.A-APR.3.5	Know and apply the Binomial Theorem for the expansion of (x in powers of x and y for a positive integer n, where x and y are any numbers, with coefficients determined for example by Pascal's Triangle.	Polynomial Expressions and Equations > Operate with Polynomials > Practice > Coach: Coach #10 https://app.discoveryeducation.com/core:assessment/coach?practice=c929e346-dc4b-46a1-adbe-6a21aea5a478&conceptGuid=0ca385ae-f910-445d-9cd8-6efea3dca7ab&courseGuid=a918ece5-9e98-43c6-90f1-e6c3eb276ec0&unitGuid=e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08&teacherMode=true
MAFS.912.A-APR.4.6	Rewrite simple rational expressions in different forms; write a(x)/b(x) in the form q(x) + r(x)/b(x), where a(x), b(x), q(x), and r(x) are polynomials with the degree of r(x) less than the degree of b(x), using inspection, long division, or, for the more complicated examples, a computer algebra system.	Rational Expressions and Equations > Develop Rational Expressions > Discover > Investigate > Investigation 1: Multiply and Divide Rational Expressions https://app.discoveryeducation.com/learn/techbook/units/550b8c2e-6f73-4507-aef7-82389c593fc8/concepts/03f03513-87ae-4b56-987b-ee1ec7744ec4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8a2e3d53-798d-4f80-9aaf-b71df8e23fd3

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MAFS.912.A-APR.4.6	Rewrite simple rational expressions in different forms; write a(x)/b(x) in the form q(x) + r(x)/b(x), where a(x), b(x), q(x), and r(x) are polynomials with the degree of r(x) less than the degree of b(x), using inspection, long division, or, for the more complicated examples, a computer algebra system.	Rational Functions > Compare Rational Functions > Discover > Investigate > Investigation 1: Exploring Zeros of Rational Functions https://app.discoveryeducation.com/learn/techbook/units/8101a78f-a710-402f-ab72-62f095a02e4c/concepts/e1d46969-9be8-479c-9b48-846cf49e693d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a5d0994f-b91d-4512-a8af-6579d7072e42
MAFS.912.A-APR.4.6	Rewrite simple rational expressions in different forms; write a(x)/b(x) in the form q(x) + r(x)/b(x), where a(x), b(x), q(x), and r(x) are polynomials with the degree of r(x) less than the degree of b(x), using inspection, long division, or, for the more complicated examples, a computer algebra system.	Rational Expressions and Equations > Develop Rational Expressions > Discover > Investigate > Investigation 3: Expression Remix https://app.discoveryeducation.com/learn/techbook/units/550b8c2e-6f73-4507-aef7-82389c593fc8/concepts/03f03513-87ae-4b56-987b-ee1ec7744ec4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b5d35b3f-48bd-4d8f-89ba-3f4744814c77
MAFS.912.A-APR.4.7	Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division by a nonzero rational expression; add, subtract, multiply, and divide rational expressions.	Rational Expressions and Equations > Develop Rational Expressions > Discover > Investigate > Investigation 1: Multiply and Divide Rational Expressions https://app.discoveryeducation.com/learn/techbook/units/550b8c2e-6f73-4507-aef7-82389c593fc8/concepts/03f03513-87ae-4b56-987b-ee1ec7744ec4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8a2e3d53-798d-4f80-9aaf-b71df8e23fd3
MAFS.912.A-APR.4.7	Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division by a nonzero rational expression; add, subtract, multiply, and divide rational expressions.	Rational Expressions and Equations > Develop Rational Expressions > Discover > Investigate > Investigation 2: Add and Subtract Rational Expressions https://app.discoveryeducation.com/learn/techbook/units/550b8c2e-6f73-4507-aef7-82389c593fc8/concepts/03f03513-87ae-4b56-987b-ee1ec7744ec4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6066025e-5e53-4fb2-9235-c86d43b4c972

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MAFS.912.A-APR.4.7	Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division by a nonzero rational expression; add, subtract, multiply, and divide rational expressions.	Rational Expressions and Equations Develop Rational Expressions > Discover > Investigate > Investigation 4: Polynomial Division By a Binomial https://app.discoveryeducation.com/learn/techbook/units/550b8c2e-6f73-4507-aef7-82389c593fc8/concepts/03f03513-87ae-4b56-987b-ee1ec7744ec4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/0469e36b-5dee-4bef-b652-d0a372fc67a1
MAFS.912.A-CED.1.1	Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational, absolute, and exponential functions.	Rational Expressions and Equations > Solve Rational Equations > Discover > Engage: Feeling a Little Pressure? https://app.discoveryeducation.com/learn/techbook/units/550B8C2E-6F73-4507-AEF7-82389C593FC8/concepts/2444E72A-BE09-4A3B-8785-2ECF2E1E75A3
MAFS.912.A-CED.1.1	Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational, absolute, and exponential functions.	Exponents and Logarithms > Model Exponential Growth and Decay > Discover > Investigate > Investigation 1: Exploring Half-Life https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4b8f866c-8152-4954-88b5-61b72e1714b7/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/0732fad2-26dc-43d9-b9e8-7f5b909cd23b
MAFS.912.A-CED.1.1	Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational, absolute, and exponential functions.	Recursive, Explicit, and Inverse Functions > Explore Recursive Functions > Discover > Engage: Oil Spills https://app.discoveryeducation.com/learn/techbook/units/0376D32C-7B36-4AFB-821F-122A9E3FCD6C/concepts/B185454E-C318-48A5-8F6D-F1E2AAC795A5
MAFS.912.A-CED.1.2	Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.	Multivariate Equations and Inequalities > Investigate Linear Systems > Discover > Investigate > Investigation 2: Is It Feasible? https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/f1375335-93c1-4fee-99a9-59bec0728eda/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/183176c4-3ad1-44cf-a7f0-193de9759938

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MAFS.912.A-CED.1.2	Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.	Multivariate Equations and Inequalities > Investigate Linear Systems > Discover > Investigate > Investigation 3: Galactic Mining https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/f1375335-93c1-4fee-99a9-59bec0728eda/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/fd67b734-7bb1-4315-a64e-d11273f8b729
MAFS.912.A-CED.1.2	Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.	Real and Complex Solutions > Analyze Radical Functions > Discover > Investigate > Investigation 2: Radical Functions and Their Applications: Body Surface Area https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/0383e05b-88ae-4325-a643-8ce2855f48ad/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/fa264847-7236-4695-b4ab-d4181740564b
MAFS.912.A-CED.1.3	Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context.	Multivariate Equations and Inequalities > Investigate Linear Systems > Discover > Investigate > Investigation 2: Is It Feasible? https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/f1375335-93c1-4fee-99a9-59bec0728eda/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/183176c4-3ad1-44cf-a7f0-193de9759938
MAFS.912.A-CED.1.3	Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context.	Multivariate Equations and Inequalities > Investigate Linear Systems > Discover > Investigate > Investigation 3: Galactic Mining https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/f1375335-93c1-4fee-99a9-59bec0728eda/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/fd67b734-7bb1-4315-a64e-d11273f8b729

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MAFS.912.A-CED.1.3	Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context.	Multivariate Equations and Inequalities > Solve Nonlinear Systems > Discover > Investigate > Investigation 2: Quadratic-Linear Systems https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/bbcbdc18-cb45-4ad8-96d2-13a34a0d1da5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6ad425e0-bc9c-4a0e-a57f-3583d216b86e
MAFS.912.A-CED.1.4	Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations.	Exponents and Logarithms > Apply Logarithmic Functions > Discover > Investigate > Investigation 2: Comparing Sounds https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4fd49997-484d-4c66-be37-9ba1cbd6958b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/99eb501b-4f2d-49ee-a3ab-8e2f34512c14
MAFS.912.A-CED.1.4	Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations.	Real and Complex Solutions > Analyze Radical Functions > Discover > Engage: Worlld's Largest Ice Cream Cone https://app.discoveryeducation.com/learn/techbook/units/4056F64D-E36C-43A6-BBD3-56B71C2143AE/concepts/0383E05B-88AE-4325-A643-8CE2855F48AD
MAFS.912.A-CED.1.4	Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations.	Rational Expressions and Equations > Solve Rational Equations > Discover > Engage: Feeling a Little Pressure? https://app.discoveryeducation.com/learn/techbook/units/550B8C2E-6F73-4507-AEF7-82389C593FC8/concepts/2444E72A-BE09-4A3B-8785-2ECF2E1E75A3
MAFS.912.A-REI.1.1	Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 5: Selecting the Best Solution Method https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5939a794-5e6b-4873-805f-68f11e5a75f7

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MAFS.912.A-REI.1.1	Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.	Rational Expressions and Equations > Solve Rational Equations > Discover > Investigate > Investigation 2: Explore Ways to Solve Rational Equations https://app.discoveryeducation.com/learn/techbook/units/550b8c2e-6f73-4507-aef7-82389c593fc8/concepts/2444e72a-be09-4a3b-8785-2ecf2e1e75a3/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d2bef5bf-60c0-4df7-8bb2-391713d854b1
MAFS.912.A-REI.1.1	Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.	Rational Expressions and Equations > Solve Rational Equations > Discover > Engage: Feeling a Little Pressure? https://app.discoveryeducation.com/learn/techbook/units/550B8C2E-6F73-4507-AEF7-82389C593FC8/concepts/2444E72A-BE09-4A3B-8785-2ECF2E1E75A3
MAFS.912.A-REI.1.2	Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.	Real and Complex Solutions > Analyze Radical Functions > Discover > Investigate > Investigation 4: Solve Radical Equations https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/0383e05b-88ae-4325-a643-8ce2855f48ad/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/917fa70f-1b27-4810-8aa0-7df1a49aad0d
MAFS.912.A-REI.1.2	Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.	Rational Expressions and Equations > Solve Rational Equations > Discover > Investigate > Investigation 2: Explore Ways to Solve Rational Equations https://app.discoveryeducation.com/learn/techbook/units/550b8c2e-6f73-4507-aef7-82389c593fc8/concepts/2444e72a-be09-4a3b-8785-2ecf2e1e75a3/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d2bef5bf-60c0-4df7-8bb2-391713d854b1

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MAFS.912.A-REI.1.2	Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.	Real and Complex Solutions > Analyze Radical Functions > Practice > Coach: Coach #12 https://app.discoveryeducation.com/core:assessment/coach?practice=5e97f878-fca4-4017-b92e-99d8fc5ea151&conceptGuid=0383e05b-88ae-4325-a643-8ce2855f48ad&courseGuid=a918ece5-9e98-43c6-90f1-e6c3eb276ec0&unitGuid=4056f64d-e36c-43a6-bbd3-56b71c2143ae&teacherMode=true
MAFS.912.A-REI.2.4.a	Use the method of completing the square to transform any quadratic equation in x into an equation of the form $(x – p)^2 = q$ that has the same solutions. Derive the quadratic formula from this form.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 5: Selecting the Best Solution Method https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5939a794-5e6b-4873-805f-68f11e5a75f7
MAFS.912.A-REI.2.4.b	Solve quadratic equations by inspection (e.g., for $x^2 = 49$), taking square roots, completing the square, the quadratic formula and factoring, as appropriate to the initial form of the equation. Recognize when the quadratic formula gives complex solutions and write them as a ± bi for real numbers a and b.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 5: Selecting the Best Solution Method https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5939a794-5e6b-4873-805f-68f11e5a75f7
MAFS.912.A-REI.2.4.b	Solve quadratic equations by inspection (e.g., for $x^2 = 49$), taking square roots, completing the square, the quadratic formula and factoring, as appropriate to the initial form of the equation. Recognize when the quadratic formula gives complex solutions and write them as a ± bi for real numbers a and b.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Engage: Exploring a Sum of Perfect Squares https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9633a70a-4168-4b22-a842-fbdec8f989e3

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MAFS.912.A-REI.2.4.b	Solve quadratic equations by inspection (e.g., for $x^2 = 49$), taking square roots, completing the square, the quadratic formula and factoring, as appropriate to the initial form of the equation. Recognize when the quadratic formula gives complex solutions and write them as a ± bi for real numbers a and b.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 4: Using the Discriminant to Determine the Types of Solutions https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6d51c6aa-3f9b-45b5-9608-eaa90a57ee33
MAFS.912.A-REI.3.6	Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.	Multivariate Equations and Inequalities > Investigate Linear Systems > Discover > Engage: Let's Picnic at the Crossroads https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/f1375335-93c1-4fee-99a9-59bec0728eda/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7f930c6d-71ec-4010-892d-41c426aeda50
MAFS.912.A-REI.3.6	Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.	Multivariate Equations and Inequalities > Solve Nonlinear Systems > Discover > Engage: How Many Times Can We Meet? https://app.discoveryeducation.com/learn/techbook/units/C7530C60-FC64-4474-A18B-ADAFEDD23288/concepts/BBCBDC18-CB45-4AD8-96D2-13A34A0D1DA5
MAFS.912.A-REI.3.6	Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.	Multivariate Equations and Inequalities > Investigate Linear Systems > Discover > Investigate > Investigation 1: Consistent and Inconsistent Systems https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/f1375335-93c1-4fee-99a9-59bec0728eda/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/10407ce3-0e4a-4397-b0e1-c4376143e7df

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MAFS.912.A-REI.3.7	Solve a simple system consisting of a linear equation and a quadratic equation in two variables algebraically and graphically.	Multivariate Equations and Inequalities > Solve Nonlinear Systems > Discover > Investigate > Investigation 2: Quadratic-Linear Systems https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/bbcbdc18-cb45-4ad8-96d2-13a34a0d1da5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6ad425e0-bc9c-4a0e-a57f-3583d216b86e
MAFS.912.A-REI.3.7	Solve a simple system consisting of a linear equation and a quadratic equation in two variables algebraically and graphically.	Multivariate Equations and Inequalities > Solve Nonlinear Systems > Discover > Investigate > Investigation 1: What's the Root of the Problem? https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/bbcbdc18-cb45-4ad8-96d2-13a34a0d1da5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e5057b35-cf1d-46bf-a036-c8015026010f
MAFS.912.A-REI.4.11	Explain why the x-coordinates of the points where the graphs of the equations y = f(x) and y = g(x) intersect are the solutions of the equation f(x) = g(x); find the solutions approximately, e.g., using technology to graph the functions, make tables of values, or find successive approximations. Include cases where f(x) and/or g(x) are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.	Exponents and Logarithms > Represent Exponential Functions > Discover > Investigate > Investigation 2: Solving Exponential Equations https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/ef90653b-9a67-4bc3-8516-95295ea9b528/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4dc91071-5ff9-4a9b-a007-b8f1a64d5496
MAFS.912.A-REI.4.11	Explain why the x-coordinates of the points where the graphs of the equations y = f(x) and y = g(x) intersect are the solutions of the equation f(x) = g(x); find the solutions approximately, e.g., using technology to graph the functions, make tables of values, or find successive approximations. Include cases where f(x) and/or g(x) are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.	Rational Functions > Compare Rational Functions > Discover > Investigate > Investigation 1: Exploring Zeros of Rational Functions https://app.discoveryeducation.com/learn/techbook/units/8101a78f-a710-402f-ab72-62f095a02e4c/concepts/e1d46969-9be8-479c-9b48-846cf49e693d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a5d0994f-b91d-4512-a8af-6579d7072e42

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MAFS.912.A-REI.4.11	Explain why the x-coordinates of the points where the graphs of the equations y = f(x) and y = g(x) intersect are the solutions of the equation f(x) = g(x); find the solutions approximately, e.g., using technology to graph the functions, make tables of values, or find successive approximations. Include cases where f(x) and/or g(x) are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.	Multivariate Equations and Inequalities > Solve Nonlinear Systems > Discover > Engage: How Many Times Can We Meet? https://app.discoveryeducation.com/learn/techbook/units/C7530C60-FC64-4474-A18B-ADAFEDD23288/concepts/BBCBDC18-CB45-4AD8-96D2-13A34A0D1DA5
MAFS.912.A-SSE.1.1.a	Interpret parts of an expression, such as terms, factors, and coefficients.	Polynomial Expressions and Equations > Operate with Polynomials > Discover > Investigate > Investigation 1: Model with Polynomials https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/0ca385ae-f910-445d-9cd8-6efea3dca7ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/908f7459-2b88-42f9-bc8b-cb915006f057
MAFS.912.A-SSE.1.1.a	Interpret parts of an expression, such as terms, factors, and coefficients.	Exponents and Logarithms > Represent Exponential Functions > Discover > Engage: Viral Videos https://app.discoveryeducation.com/learn/techbook/units/CF8B8387-94AA-4C91-AAE6-9392338C16D0/concepts/EF90653B-9A67-4BC3-8516-95295EA9B528
MAFS.912.A-SSE.1.1.b	Interpret complicated expressions by viewing one or more of their parts as a single entity.	Polynomial Expressions and Equations > Operate with Polynomials > Discover > Investigate > Investigation 3: Factoring Cubes https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/0ca385ae-f910-445d-9cd8-6efea3dca7ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/bb1ee8e8-5e97-48f6-89a3-927cfb110983

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MAFS.912.A-SSE.1.1.b	Interpret complicated expressions by viewing one or more of their parts as a single entity.	Exponents and Logarithms > Model Exponential Growth and Decay > Discover > Investigate > Investigation 3: Compound Interest and Discovering the Value of e https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4b8f866c-8152-4954-88b5-61b72e1714b7/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1f38fd04-467d-4e4a-a1ef-cecac1700d8a
MAFS.912.A-SSE.1.1.b	Interpret complicated expressions by viewing one or more of their parts as a single entity.	Exponents and Logarithms > Discover and Analyze Logarithms > Discover > Investigate > Investigation 4: Richter Scale Magnitude https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/d62a5973-da8a-43a9-93fc-df7dfc321f32/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/90bee608-cdd3-4577-8de9-26fefc59b596
MAFS.912.A-SSE.1.2	Use the structure of an expression to identify ways to rewrite it.	Rational Expressions and Equations > Solve Rational Equations > Discover > Investigate > Investigation 2: Explore Ways to Solve Rational Equations https://app.discoveryeducation.com/learn/techbook/units/550b8c2e-6f73-4507-aef7-82389c593fc8/concepts/2444e72a-be09-4a3b-8785-2ecf2e1e75a3/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d2bef5bf-60c0-4df7-8bb2-391713d854b1
MAFS.912.A-SSE.1.2	Use the structure of an expression to identify ways to rewrite it.	Rational Expressions and Equations > Develop Rational Expressions > Discover > Investigate > Investigation 2: Add and Subtract Rational Expressions https://app.discoveryeducation.com/learn/techbook/units/550b8c2e-6f73-4507-aef7-82389c593fc8/concepts/03f03513-87ae-4b56-987b-ee1ec7744ec4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6066025e-5e53-4fb2-9235-c86d43b4c972

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MAFS.912.A-SSE.1.2	Use the structure of an expression to identify ways to rewrite it.	Polynomial Expressions and Equations > Operate with Polynomials > Discover > Investigate > Investigation 2: Factoring with Quadratic Techniques https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/0ca385ae-f910-445d-9cd8-6efea3dca7ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3c1fb2bc-10bd-40f9-9bde-242d2dade8a4
MAFS.912.A-SSE.2.3.a	Factor a quadratic expression to reveal the zeros of the function it defines.	Polynomial Expressions and Equations > Operate with Polynomials > Discover > Engage: Examining Roots of Polynomials https://app.discoveryeducation.com/learn/techbook/units/E7BD994D-B09A-4CB0-8EE7-5B51B2A11D08/concepts/0CA385AE-F910-445D-9CD8-6EFEA3DCA7AB
MAFS.912.A-SSE.2.3.a	Factor a quadratic expression to reveal the zeros of the function it defines.	Polynomial Expressions and Equations > Explore Polynomial Factors > Discover > Investigate > Investigation 2: Using Long Division to Find Roots https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/24be8e11-e09d-4065-87a8-a17b50282a13/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c7afe8a8-8753-4392-b55a-6bba8a89bc45
MAFS.912.A-SSE.2.3.b	Complete the square in a quadratic expression to reveal the maximum or minimum value of the function it defines.	Rational Expressions and Equations > Solve Rational Equations > Discover > Investigate > Investigation 2: Explore Ways to Solve Rational Equations https://app.discoveryeducation.com/learn/techbook/units/550b8c2e-6f73-4507-aef7-82389c593fc8/concepts/2444e72a-be09-4a3b-8785-2ecf2e1e75a3/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d2bef5bf-60c0-4df7-8bb2-391713d854b1
MAFS.912.A-SSE.2.3.c	Use the properties of exponents to transform expressions for exponential functions.	Exponents and Logarithms > Represent Exponential Functions > Discover > Investigate > Investigation 2: Solving Exponential Equations https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/ef90653b-9a67-4bc3-8516-95295ea9b528/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4dc91071-5ff9-4a9b-a007-b8f1a64d5496

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MAFS.912.A-SSE.2.3.c	Use the properties of exponents to transform expressions for exponential functions.	Exponents and Logarithms > Model Exponential Growth and Decay > Discover > Investigate > Investigation 3: Compound Interest and Discovering the Value of e https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4b8f866c-8152-4954-88b5-61b72e1714b7/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1f38fd04-467d-4e4a-a1ef-cecac1700d8a
MAFS.912.A-SSE.2.3.c	Use the properties of exponents to transform expressions for exponential functions.	Real and Complex Solutions > Analyze Radical Functions > Extension 1: Sovling Equations with Rational Exponents https://app.discoveryeducation.com/learn/techbook/units/560abb19-d50f-4593-bf22-1becf3e4a5f0/concepts/0383e05b-88ae-4325-a643-8ce2855f48ad/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/da79b086-574d-4b6d-bae2-c628d59177bc
MAFS.912.A-SSE.2.4	Derive the formula for the sum of a finite geometric series (when the common ratio is not 1), and use the formula to solve problems.	Recursive, Explicit, and Inverse Functions > Explore Recursive Functions > Discover > Investigate > Investigation 4: A New Shape Shifter https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/b185454e-c318-48a5-8f6d-f1e2aac795a5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4713851d-c570-4ba3-b451-94550b392552
MAFS.912.A-SSE.2.4	Derive the formula for the sum of a finite geometric series (when the common ratio is not 1), and use the formula to solve problems.	Recursive, Explicit, and Inverse Functions > Explore Recursive Functions > Practice > Coach: Coach #10 https://app.discoveryeducation.com/core:assessment/coach?practice=dd6f9fda-314d-49da-9554-7fb3a5625c60&conceptGuid=b185454e-c318-48a5-8f6d-f1e2aac795a5&courseGuid=a918ece5-9e98-43c6-90f1-e6c3eb276ec0&unitGuid=0376d32c-7b36-4afb-821f-122a9e3fcd6c&teacherMode=true

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MAFS.912.A-SSE.2.4	Derive the formula for the sum of a finite geometric series (when the common ratio is not 1), and use the formula to solve problems.	Recursive, Explicit, and Inverse Functions > Explore Recursive Functions > Practice > Play: Play #15 https://app.discoveryeducation.com/core:assessment/play?conceptGuid=b185454e-c318-48a5-8f6d-f1e2aac795a5&courseGuid=a918ece5-9e98-43c6-90f1-e6c3eb276ec0&unitGuid=0376d32c-7b36-4afb-821f-122a9e3fcd6c&teacherMode=true#focus
MAFS.912.F-BF.1.1.a	Determine an explicit expression, a recursive process, or steps for calculation from a context.	Recursive, Explicit, and Inverse Functions > Explore Recursive Functions > Discover > Investigate > Investigation 1: Seating Arrangements https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/b185454e-c318-48a5-8f6d-f1e2aac795a5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8d627611-ee05-4a38-af5c-a9487eecd732
MAFS.912.F-BF.1.1.a	Determine an explicit expression, a recursive process, or steps for calculation from a context.	Recursive, Explicit, and Inverse Functions > Explore Recursive Functions > Discover > Investigate > Investigation 3: Paper Tearing > Hands-on-Activity: Paper Tearing https://app.discoveryeducation.com/learn/player/00f8a99f-6358-4091-a428-347a9e4109ba
MAFS.912.F-BF.1.1.a	Determine an explicit expression, a recursive process, or steps for calculation from a context.	Exponents and Logarithms > Apply Logarithmic Functions > Discover > Investigate > Investigation 3: Change-of-Base Formula https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4fd49997-484d-4c66-be37-9ba1cbd6958b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/0a41a34f-c9d3-4fd7-bce9-683326763168
MAFS.912.F-BF.1.1.b	Combine standard function types using arithmetic operations.	Recursive, Explicit, and Inverse Functions > Explore Recursive Functions > Discover > Investigate > Investigation 1: Seating Arrangements https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/b185454e-c318-48a5-8f6d-f1e2aac795a5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8d627611-ee05-4a38-af5c-a9487eecd732

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MAFS.912.F-BF.1.1.b	Combine standard function types using arithmetic operations.	Recursive, Explicit, and Inverse Functions > Explore Recursive Functions > Discover > Investigate > Investigation 2: Shape Shifter https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/b185454e-c318-48a5-8f6d-f1e2aac795a5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8b3bd9ef-6c0e-477f-956a-eba77b101621
MAFS.912.F-BF.1.1.b	Combine standard function types using arithmetic operations.	Exponents and Logarithms > Model Exponential Growth and Decay > Discover > Investigate > Investigation 3: Compound Interest and Discovering the Value of e https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4b8f866c-8152-4954-88b5-61b72e1714b7/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1f38fd04-467d-4e4a-a1ef-cecac1700d8a
MAFS.912.F-BF.1.1.c	Compose functions.	Recursive, Explicit, and Inverse Functions > Explore Inverse Functions > Discover > Investigate > Investigation 2: Exploring Composite Functions https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/e3a4e796-36f9-4e66-9e5c-1c32a1f81d79/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/29ace809-b639-45f7-8efb-fc6f436a4df0
MAFS.912.F-BF.1.1.c	Compose functions.	Recursive, Explicit, and Inverse Functions > Explore Inverse Functions > Discover > Investigate > Investigation 4: Graphs of Inverse Functions https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/e3a4e796-36f9-4e66-9e5c-1c32a1f81d79/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/67359e7a-3de5-470f-8272-d0c5ce3d4c56

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MAFS.912.F-BF.1.2	Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations, and translate between the two forms.	Recursive, Explicit, and Inverse Functions > Explore Recursive Functions > Discover > Investigate > Investigation 1: Seating Arrangements https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/b185454e-c318-48a5-8f6d-f1e2aac795a5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8d627611-ee05-4a38-af5c-a9487eecd732
MAFS.912.F-BF.1.2	Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations, and translate between the two forms.	Recursive, Explicit, and Inverse Functions > Explore Recursive Functions > Discover > Investigate > Investigation 3: Paper Tearing > Hands-on-Activity: Paper Tearing https://app.discoveryeducation.com/learn/player/00f8a99f-6358-4091-a428-347a9e4109ba
MAFS.912F-BF.2.a	Use the change of base formula.	Exponents and Logarithms > Apply Logarithmic Functions > Discover > Investigate > Investigation 3: Change-of-Base Formula https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4fd49997-484d-4c66-be37-9ba1cbd6958b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/0a41a34f-c9d3-4fd7-bce9-683326763168
MAFS.912.F-BF.2.3	Identify the effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx), and f(x + k) for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology.	Recursive, Explicit, and Inverse Functions > Explore Function Transformations > Discover > Investigate > Investigation 1 > Exploring Transformations https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/0264d6a0-db62-4b03-bcfa-49d99b41113c/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ca2800cf-f066-4f0d-83cf-1e3578737c39

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MAFS.912.F-BF.2.3	Identify the effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx), and f(x + k) for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology.	Real and Complex Solutions > Analyze Radical Functions > Discover > Investigate > Investigation 3: Transforming Graphs of Radical Functions https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/0383e05b-88ae-4325-a643-8ce2855f48ad/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/615dc9ae-d948-43fc-bae3-c7159b50fc92
MAFS.912.F-BF.2.3	Identify the effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx), and f(x + k) for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology.	Exponents and Logarithms > Represent Exponential Functions > Discover > Investigate > Investigation 3: Graphs of Exponential Functions https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/ef90653b-9a67-4bc3-8516-95295ea9b528/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/0ce9bc58-bcd9-4769-862b-4a9420c8291a
MAFS.912.F-BF.2.4.a	Solve an equation of the form f(x) = c for a simple function f that has an inverse and write an expression for the inverse.	Recursive, Explicit, and Inverse Functions > Explore Inverse Functions > Discover > Investigate > Investigation 4: Graphs of Inverse Functions https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/e3a4e796-36f9-4e66-9e5c-1c32a1f81d79/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/67359e7a-3de5-470f-8272-d0c5ce3d4c56
MAFS.912.F-BF.2.4.a	Solve an equation of the form f(x) = c for a simple function f that has an inverse and write an expression for the inverse.	Real and Complex Solutions > Analyze Radical Functions > Discover > Investigate > Investigation 1: Inverse Functions https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/0383e05b-88ae-4325-a643-8ce2855f48ad/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/863c05ff-9e68-4dea-aa2a-0654ed61e49c

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MAFS.912.F-BF.2.4.a	Solve an equation of the form f(x) = c for a simple function f that has an inverse and write an expression for the inverse.	Exponents and Logarithms > Discover and Analyze Logarithms > Discover > Investigate > Investigation 3: Using Inverse Functions https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/d62a5973-da8a-43a9-93fc-df7dfc321f32/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2d518d31-7963-4b1f-a577-b1f7697e0fd7
MAFS.912.F-BF.2.4.b	Verify by composition that one function is the inverse of another.	Recursive, Explicit, and Inverse Functions > Explore Inverse Functions > Discover > Investigate > Investigation 2: Exploring Composite Functions https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/e3a4e796-36f9-4e66-9e5c-1c32a1f81d79/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/29ace809-b639-45f7-8efb-fc6f436a4df0
MAFS.912.F-BF.2.4.b	Verify by composition that one function is the inverse of another.	Exponents and Logarithms > Discover and Analyze Logarithms > Discover > Investigate > Investigation 3: Using Inverse Functions https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/d62a5973-da8a-43a9-93fc-df7dfc321f32/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2d518d31-7963-4b1f-a577-b1f7697e0fd7
MAFS.912.F-BF.2.4.b	Verify by composition that one function is the inverse of another.	Exponents and Logarithms > Apply Logarithmic Functions > Discover > Investigate > Investigation 1: Missing Numbers https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4fd49997-484d-4c66-be37-9ba1cbd6958b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/44c99ad7-e9f4-412d-a421-701b1255118c

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MAFS.912.F-BF.2.4.c	Read values of an inverse function from a graph or a table, given that the function has an inverse.	Recursive, Explicit, and Inverse Functions > Explore Inverse Functions > Discover > Investigate > Investigation 3: Function Machine https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/e3a4e796-36f9-4e66-9e5c-1c32a1f81d79/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b4739e4c-020a-4e35-9840-45a4a2a36d6d
MAFS.912.F-BF.2.4.c	Read values of an inverse function from a graph or a table, given that the function has an inverse.	Exponents and Logarithms > Discover and Analyze Logarithms > Discover > Investigate > Investigation 1: Exponential to Logarithmic https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/d62a5973-da8a-43a9-93fc-df7dfc321f32/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5e85a7cb-8305-456a-8cfe-881907013e36
MAFS.912.F-BF.2.4.c	Read values of an inverse function from a graph or a table, given that the function has an inverse.	Rational Functions > Compare Rational Functions > Discover > Investigate > Investigation 2: Finding the Inverse of Rational Functions https://app.discoveryeducation.com/learn/techbook/units/8101a78f-a710-402f-ab72-62f095a02e4c/concepts/e1d46969-9be8-479c-9b48-846cf49e693d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/39f7c864-504a-462e-a5e1-e5b509c6c706
MAFS.912.F-BF.2.4.d	Produce an invertible function from a non-invertible function by restricting the domain.	Recursive, Explicit, and Inverse Functions > Explore Inverse Functions > Discover > Investigate > Investigation 5: Diving In https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/e3a4e796-36f9-4e66-9e5c-1c32a1f81d79/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b87da64a-f681-4257-9498-384d9d6fbede

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MAFS.912.F-BF.2.4.d	Produce an invertible function from a non-invertible function by restricting the domain.	Real and Complex Solutions > Analyze Radical Functions > Discover > Investigate > Investigation 1: Inverse Functions https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/0383e05b-88ae-4325-a643-8ce2855f48ad/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/863c05ff-9e68-4dea-aa2a-0654ed61e49c
MAFS.912.F-BF.2.a	Use the change of base formula.	Exponents and Logarithms > Apply Logarithmic Functions > Discover > Investigate > Investigation 3: Change-of-Base Formula https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4fd49997-484d-4c66-be37-9ba1cbd6958b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/0a41a34f-c9d3-4fd7-bce9-683326763168
MAFS.912.F-BF.2.a	Use the change of base formula.	Exponents and Logarithms > Apply Logarithmic Functions > Practice > Coach: Coach #11 https://app.discoveryeducation.com/core:assessment/coach?practice=1969eb0d-ed3a-418c-a8dc-f6539167f1c1&conceptGuid=4fd49997-484d-4c66-be37-9ba1cbd6958b&courseGuid=a918ece5-9e98-43c6-90f1-e6c3eb276ec0&unitGuid=cf8b8387-94aa-4c91-aae6-9392338c16d0&teacherMode=true
MAFS.912.F-BF.2.a	Use the change of base formula.	Exponents and Logarithms > Apply Logarithmic Functions > Practice > Play: Play #9 https://app.discoveryeducation.com/core:assessment/play?conceptGuid=4fd49997-484d-4c66-be37-9ba1cbd6958b&courseGuid=a918ece5-9e98-43c6-90f1-e6c3eb276ec0&unitGuid=cf8b8387-94aa-4c91-aae6-9392338c16d0&teacherMode=true#focus

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MAFS.912.F-IF.2.4	For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship.	Polynomial Expressions and Equations > Analyze Polynomial Functions > Discover > Engage: Use a Polynomial to Build a Fence https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/b836d41e-298c-4fd2-a60c-fec8793bf48a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5763c5dc-ee58-46a5-9731-53894dfc2038
MAFS.912.F-IF.2.4	For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship.	Polynomial Expressions and Equations > Analyze Polynomial Functions > Discover > Investigate > Investigation 1: Roller Coasters https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/b836d41e-298c-4fd2-a60c-fec8793bf48a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4bd0ef59-c7f7-4fec-bd32-4a7493444751
MAFS.912.F-IF.2.5	Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes.	Rational Functions > Represent Rational Functions > Discover > Investigate > Investigation 3: Interpreting Graphs of Rational Functions https://app.discoveryeducation.com/learn/techbook/units/8101a78f-a710-402f-ab72-62f095a02e4c/concepts/92c339fc-43a8-49b4-8437-93a750960f14/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d3753919-0e87-40a7-97f2-73354230405c
MAFS.912.F-IF.2.5	Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes.	Recursive, Explicit, and Inverse Functions > Explore Inverse Functions > Discover > Investigate > Investigation 5: Diving In https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/e3a4e796-36f9-4e66-9e5c-1c32a1f81d79/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b87da64a-f681-4257-9498-384d9d6fbede

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MAFS.912.F-IF.2.6	Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.	Polynomial Expressions and Equations > Analyze Polynomial Functions > Discover > Investigate > Investigation 1: Roller Coasters https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/b836d41e-298c-4fd2-a60c-fec8793bf48a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4bd0ef59-c7f7-4fec-bd32-4a7493444751
MAFS.912.F-IF.2.6	Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.	Rational Functions > Represent Rational Functions > Discover > Investigate > Investigation 1: Asymptotes and Holes https://app.discoveryeducation.com/learn/techbook/units/8101a78f-a710-402f-ab72-62f095a02e4c/concepts/92c339fc-43a8-49b4-8437-93a750960f14/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/130380ad-0aa2-432b-897d-d2e41dcc2788
MAFS.912.F-IF.3.7.a	Graph linear and quadratic functions and show intercepts, maxima, and minima.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Engage: Exploring a Sum of Perfect Squares https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9633a70a-4168-4b22-a842-fbdec8f989e3
MAFS.912.F-IF.3.7.a	Graph linear and quadratic functions and show intercepts, maxima, and minima.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 5: Selecting the Best Solution Method https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5939a794-5e6b-4873-805f-68f11e5a75f7

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MAFS.912.F-IF.3.7.a	Graph linear and quadratic functions and show intercepts, maxima, and minima.	Polynomial Expressions and Equations > Analyze Polynomial Functions > Discover > Engage: Use a Polynomial to Build a Fence https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/b836d41e-298c-4fd2-a60c-fec8793bf48a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5763c5dc-ee58-46a5-9731-53894dfc2038
MAFS.912.F-IF.3.7.b	Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions.	Real and Complex Solutions > Analyze Radical Functions > Discover > Investigate > Investigation 2: Radical Functions and Their Applications: Body Surface Area https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/0383e05b-88ae-4325-a643-8ce2855f48ad/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/fa264847-7236-4695-b4ab-d4181740564b
MAFS.912.F-IF.3.7.b	Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions.	Real and Complex Solutions > Analyze Radical Functions > Discover > Investigate > Investigation 3: Transforming Graphs of Radical Functions https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/0383e05b-88ae-4325-a643-8ce2855f48ad/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/615dc9ae-d948-43fc-bae3-c7159b50fc92
MAFS.912.F-IF.3.7.b	Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions.	Recursive, Explicit, and Inverse Functions > Explore Function Transformations > Discover > Investigate > Investigation 2 > Identifying the Effects of Transformations https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/0264d6a0-db62-4b03-bcfa-49d99b41113c/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d7171619-5cc0-4816-9180-773abd0e4772

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MAFS.912.F-IF.3.7.c	Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior.	Polynomial Expressions and Equations > Analyze Polynomial Functions > Discover > Investigate > Investigation 1: Roller Coasters https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/b836d41e-298c-4fd2-a60c-fec8793bf48a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4bd0ef59-c7f7-4fec-bd32-4a7493444751
MAFS.912.F-IF.3.7.c	Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior.	Polynomial Expressions and Equations > Analyze Polynomial Functions > Discover > Investigate > Investigation 2: Write the Equation of a Polynomial https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/b836d41e-298c-4fd2-a60c-fec8793bf48a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/225d5ff3-b774-4c54-a241-b6a6fd1f6e5f
MAFS.912.F-IF.3.7.c	Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior.	Polynomial Expressions and Equations > Analyze Polynomial Functions > Discover > Investigate > Investigation 4: Examine and Graph Polynomials https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/b836d41e-298c-4fd2-a60c-fec8793bf48a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a29ce47c-feb6-49ad-a086-952fd3ddd0fb
MAFS.912.F-IF.3.7.d	Graph rational functions, identifying zeros and asymptotes when suitable factorizations are available, and showing end behavior.	Rational Functions > Represent Rational Functions > Discover > Investigate > Investigation 1: Asymptotes and Holes https://app.discoveryeducation.com/learn/techbook/units/8101a78f-a710-402f-ab72-62f095a02e4c/concepts/92c339fc-43a8-49b4-8437-93a750960f14/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/130380ad-0aa2-432b-897d-d2e41dcc2788

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MAFS.912.F-IF.3.7.d	Graph rational functions, identifying zeros and asymptotes when suitable factorizations are available, and showing end behavior.	Rational Functions > Represent Rational Functions > Discover > Investigate > Investigation 2: Graphing Rational Functions https://app.discoveryeducation.com/learn/techbook/units/8101a78f-a710-402f-ab72-62f095a02e4c/concepts/92c339fc-43a8-49b4-8437-93a750960f14/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/fb136f4d-45a5-47a6-83d0-b3ba8cade7c8
MAFS.912.F-IF.3.7.d	Graph rational functions, identifying zeros and asymptotes when suitable factorizations are available, and showing end behavior.	Rational Functions > Represent Rational Functions > Discover > Investigate > Investigation 3: Interpreting Graphs of Rational Functions https://app.discoveryeducation.com/learn/techbook/units/8101a78f-a710-402f-ab72-62f095a02e4c/concepts/92c339fc-43a8-49b4-8437-93a750960f14/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d3753919-0e87-40a7-97f2-73354230405c
MAFS.912.F-IF.3.7.e	Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude, and using phase shift.	Exponents and Logarithms > Discover and Analyze Logarithms > Discover > Investigate > Investigation 2: Understanding Logarithmic Functions https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/d62a5973-da8a-43a9-93fc-df7dfc321f32/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9abfa6ec-3cef-4aaf-b730-79481aa21e18
MAFS.912.F-IF.3.7.e	Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude, and using phase shift.	Trigonometry > Represent Trigonometric Functions > Discover > Investigate > Investigation 2: Periodic Behavior https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d8fc0e78-f33c-418c-a238-dba55b928e13/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b699772a-70ed-4a0c-8238-250513de4dae
MAFS.912.F-IF.3.7.e	Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude, and using phase shift.	Trigonometry > Represent Trigonometric Functions > Extension: Phase Shifts https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d8fc0e78-f33c-418c-a238-dba55b928e13/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/da3a5553-922a-4e9b-9e41-3cfb6ee12671

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MAFS.912.F-IF.3.8.a	Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 4: Using the Discriminant to Determine the Types of Solutions https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6d51c6aa-3f9b-45b5-9608-eaa90a57ee33
MAFS.912.F-IF.3.8.a	Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 5: Selecting the Best Solution Method https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5939a794-5e6b-4873-805f-68f11e5a75f7
MAFS.912.F-IF.3.8.b	Use the properties of exponents to interpret expressions for exponential functions.	Exponents and Logarithms > Model Exponential Growth and Decay > Discover > Investigate > Investigation 1: Exploring Half-Life https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4b8f866c-8152-4954-88b5-61b72e1714b7/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/0732fad2-26dc-43d9-b9e8-7f5b909cd23b
MAFS.912.F-IF.3.8.b	Use the properties of exponents to interpret expressions for exponential functions.	Exponents and Logarithms > Model Exponential Growth and Decay > Discover > Investigate > Investigation 2: Emerald Ash Borer https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4b8f866c-8152-4954-88b5-61b72e1714b7/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f04a236e-0171-4a7e-842d-7936ebb3e946

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MAFS.912.F-IF.3.8.b	Use the properties of exponents to interpret expressions for exponential functions.	Exponents and Logarithms > Model Exponential Growth and Decay > Discover > Investigate > Investigation 3: Compound Interest and Discovering the Value of e https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/4b8f866c-8152-4954-88b5-61b72e1714b7/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1f38fd04-467d-4e4a-a1ef-cecac1700d8a
MAFS.912.F-IF.3.9	Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).	Exponents and Logarithms > Represent Exponential Functions > Discover > Investigate > Investigation 4: Money Matters https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/ef90653b-9a67-4bc3-8516-95295ea9b528/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/017aaa8f-9da5-46a1-9db8-d6e6be451c87
MAFS.912.F-IF.3.9	Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).	Real and Complex Solutions > Analyze Radical Functions > Discover > Investigate > Investigation 3: Transforming Graphs of Radical Functions https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/0383e05b-88ae-4325-a643-8ce2855f48ad/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/615dc9ae-d948-43fc-bae3-c7159b50fc92
MAFS.912.F-IF.3.9	Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).	Trigonometry > Apply Trigonometric Relationships > Discover > Investigate > Investigation 2: Space Rocket https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d9a634ea-e02e-4830-aeb7-fca52a5fdb1d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/28ecb0be-18e7-4daf-9b8d-8cd2f6c5ead6

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MAFS.912.F-LE.1.4	For exponential models, express as a logarithm the solution to *ab* to the *ct* power = *d* where *a*, *c*, and *d* are numbers and the base *b* is 2, 10, or *e*; evaluate the logarithm using technology.	Exponents and Logarithms > Discover and Analyze Logarithms > Discover > Investigate > Investigation 3: Using Inverse Functions https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/d62a5973-da8a-43a9-93fc-df7dfc321f32/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2d518d31-7963-4b1f-a577-b1f7697e0fd7
MAFS.912.F-LE.2.5	Interpret the parameters in a linear or exponential function in terms of a context.	Exponents and Logarithms > Represent Exponential Functions > Discover > Investigate > Investigation 4: Money Matters https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/ef90653b-9a67-4bc3-8516-95295ea9b528/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/017aaa8f-9da5-46a1-9db8-d6e6be451c87
MAFS.912.F-LE.2.5	Interpret the parameters in a linear or exponential function in terms of a context.	Recursive, Explicit, and Inverse Functions > Explore Recursive Functions > Discover > Investigate > Investigation 1: Seating Arrangements https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/b185454e-c318-48a5-8f6d-f1e2aac795a5/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8d627611-ee05-4a38-af5c-a9487eecd732
MAFS.912.F-LE.2.5	Interpret the parameters in a linear or exponential function in terms of a context.	Recursive, Explicit, and Inverse Functions > Explore Recursive Functions > Discover > Investigate > Investigation 3: Paper Tearing > Hands-on-Activity: Paper Tearing https://app.discoveryeducation.com/learn/player/00f8a99f-6358-4091-a428-347a9e4109ba
MAFS.912.F-TF.1.1	Understand radian measure of an angle as the length of the arc on the unit circle subtended by the angle; Convert between degrees and radians.	Trigonometry > Explore Angle Measure > Discover > Investigate > Investigation 2: Deriving Radian Measure https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/44a25d6e-7a80-469f-b34b-62c3e6543c55/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/48857adc-955b-41ac-bfd5-53e32928f779

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MAFS.912.F-TF.1.1	Understand radian measure of an angle as the length of the arc on the unit circle subtended by the angle; Convert between degrees and radians.	Trigonometry > Explore Angle Measure > Discover > Investigate > Investigation 3: Radians Around the Unit Circle https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/44a25d6e-7a80-469f-b34b-62c3e6543c55/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c06913a7-cb07-43fa-be2e-b8515fe5569d
MAFS.912.F-TF.1.1	Understand radian measure of an angle as the length of the arc on the unit circle subtended by the angle; Convert between degrees and radians.	Trigonometry > Explore Angle Measure > Discover > Investigate > Investigation 4: Converting Between Degree and Radian Measures https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/44a25d6e-7a80-469f-b34b-62c3e6543c55/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b93b0ae6-826e-43c2-925b-c47642a514fb
MAFS.912.F-TF.1.2	Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle.	Trigonometry > Represent Trigonometric Functions > Discover > Investigate > Investigation 1: The Unit Circle Challenge https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d8fc0e78-f33c-418c-a238-dba55b928e13/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/738340f0-abff-4d63-8d41-27db93a0f348
MAFS.912.F-TF.1.2	Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle.	Trigonometry > Represent Trigonometric Functions > Discover > Investigate > Investigation 3: What Goes Around Comes Around https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d8fc0e78-f33c-418c-a238-dba55b928e13/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/72f46a36-706e-4516-bbc4-8b271ffbc63c

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MAFS.912.F-TF.2.5	Choose trigonometric functions to model periodic phenomena with specified amplitude, frequency, and midline.	Trigonometry > Apply Trigonometric Relationships > Discover > Investigate > Investigation 1: Pendulums in Motion https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d9a634ea-e02e-4830-aeb7-fca52a5fdb1d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/10a9605b-ce43-45b1-8cfa-082d156a4f87
MAFS.912.F-TF.3.8	Prove the Pythagorean identity $\sin^2(\theta) + \cos^2(\theta) = 1$ and use it to calculate trigonometric ratios.	Trigonometry > Represent Trigonometric Functions > Discover > Investigate > Investigation 1: The Unit Circle Challenge https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d8fc0e78-f33c-418c-a238-dba55b928e13/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/738340f0-abff-4d63-8d41-27db93a0f348
MAFS.912.G-GPE.1	Derive the equation of a parabola given a focus and directrix.	Conic Sections > Analyze Graphs and Equations of Parabolas > Discover > Investigate > Investigation 2: Derive the Equation of a Parabola 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
MAFS.912.G-GPE.1	Derive the equation of a parabola given a focus and directrix.	Conic Sections > Analyze Graphs and Equations of Parabolas > Discover > Investigate > Extension: Investigating the Latus Chord 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/51b46440-1aa6-4e2c-b30d-52a2150af771

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sMAFS.912.N-CN.1.1	Know there is a complex number i such that $i^2 = -1$, and every complex number has the form a + bi with a and b real.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 1: The Power of i https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/409f6247-b754-4c31-ace1-14441e7ea021
MAFS.912.N-CN.1.1	Know there is a complex number i such that $i^2 = -1$, and every complex number has the form a + bi with a and b real.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 2: Bringing Closure to Complex Numbers https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/0026cf6d-8616-4ac7-bfc5-e40a55e10ea1
MAFS.912.N-CN.1.2	Use the relation $i^2 = -1$ and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 3: Complex Number Operations https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4d952a0d-f2fd-468e-a2e3-27cdec3da92c
MAFS.912.N-CN.3.7	Solve quadratic equations with real coefficients that have complex solutions.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 4: Using the Discriminant to Determine the Types of Solutions https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6d51c6aa-3f9b-45b5-9608-eaa90a57ee33

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MAFS.912.N-CN.3.7	Solve quadratic equations with real coefficients that have complex solutions.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 6: Quadratic Equations and Their Roots https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5fe633d7-09d8-457b-8725-3f153f86adce
MAFS.912.N-CN.3.8:	Extend polynomial identities to the complex numbers. For example, rewrite $x^2 + 4$ as $(x + 2i)(x – 2i)$.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 5: Selecting the Best Solution Method https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5939a794-5e6b-4873-805f-68f11e5a75f7
MAFS.912.N-CN.3.8:	Extend polynomial identities to the complex numbers. For example, rewrite $x^2 + 4$ as $(x + 2i)(x – 2i)$.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 4: Using the Discriminant to Determine the Types of Solutions https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6d51c6aa-3f9b-45b5-9608-eaa90a57ee33
MAFS.912.N-CN.3.8:	Extend polynomial identities to the complex numbers. For example, rewrite $x^2 + 4$ as $(x + 2i)(x – 2i)$.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 5: Selecting the Best Solution Method https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5939a794-5e6b-4873-805f-68f11e5a75f7

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MAFS.912.N-CN.3.9:	Know the Fundamental Theorem of Algebra; show that it is true for quadratic polynomials.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 5: Selecting the Best Solution Method https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5939a794-5e6b-4873-805f-68f11e5a75f7
MAFS.912.N-CN.3.9:	Know the Fundamental Theorem of Algebra; show that it is true for quadratic polynomials.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 4: Using the Discriminant to Determine the Types of Solutions https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6d51c6aa-3f9b-45b5-9608-eaa90a57ee33
MAFS.912.N-CN.3.9:	Know the Fundamental Theorem of Algebra; show that it is true for quadratic polynomials.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Investigate > Investigation 6: Quadratic Equations and Their Roots https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5fe633d7-09d8-457b-8725-3f153f86adce
MAFS.912.N-Q.1.2	Define appropriate quantities for the purpose of descriptive modeling.	Multivariate Equations and Inequalities > Investigate Linear Systems > Discover > Investigate > Investigation 2: Is It Feasible? https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/f1375335-93c1-4fee-99a9-59bec0728eda/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/183176c4-3ad1-44cf-a7f0-193de9759938

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MAFS.912.N-Q.1.2	Define appropriate quantities for the purpose of descriptive modeling.	Rational Expressions and Equations > Solve Rational Equations > Discover > Investigate > Investigation 4: Inverse Variation https://app.discoveryeducation.com/learn/techbook/units/550b8c2e-6f73-4507-aef7-82389c593fc8/concepts/2444e72a-be09-4a3b-8785-2ecf2e1e75a3/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/35988007-8dee-429e-be96-c43c91859e5e
MAFS.912.N-RN.1.1	Explain how the definition of the meaning of rational exponents follows from extending the properties of integer exponents to those values, allowing for a notation for radicals in terms of rational exponents.	Real and Complex Solutions > Analyze Radical Functions > Discover > Investigate > Investigation 4: Solve Radical Equations https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/0383e05b-88ae-4325-a643-8ce2855f48ad/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/917fa70f-1b27-4810-8aa0-7df1a49aad0d
MAFS.912.N-RN.1.2	Rewrite expressions involving radicals and rational exponents using the properties of exponents.	Real and Complex Solutions > Analyze Radical Functions > Discover > Investigate > Investigation 4: Solve Radical Equations https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/0383e05b-88ae-4325-a643-8ce2855f48ad/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/917fa70f-1b27-4810-8aa0-7df1a49aad0d
MAFS.912.S-CP.1.1	Describe events as subsets of a sample space (the set of outcomes) using characteristics (or categories) of the outcomes, or as unions, intersections, or complements of other events (“or,” “and,” “not”).	Probability > Explore Conditional Probability > Discover > Engage: How Likely Is It? https://app.discoveryeducation.com/learn/techbook/units/BA345A88-5F0A-4BF9-89EF-52745E636826/concepts/7BE3AEA6-9EA4-4E6F-BD1C-2188B90017A9
MAFS.912.S-CP.1.1	Describe events as subsets of a sample space (the set of outcomes) using characteristics (or categories) of the outcomes, or as unions, intersections, or complements of other events (“or,” “and,” “not”).	Probability > Explore Conditional Probability > Discover > Investigate > Investigation 1: Switch or Stay? https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/7be3aea6-9ea4-4e6f-bd1c-2188b90017a9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8f8433ca-62cf-4fc1-95a1-147544e80c8e

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MAFS.912.S-CP.1.1	Describe events as subsets of a sample space (the set of outcomes) using characteristics (or categories) of the outcomes, or as unions, intersections, or complements of other events ("or," "and," "not").	Probability > Explore Conditional Probability > Discover > Investigate > Investigation 2: Flip a Coin https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/7be3aea6-9ea4-4e6f-bd1c-2188b90017a9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1ef26aac-3f54-4095-987f-635bee290f00
MAFS.912.S-CP.1.2	Understand that two events A and B are independent if the probability of A and B occurring together is the product of their probabilities, and use this characterization to determine if they are independent.	Probability > Explore Conditional Probability > Discover > Investigate > Investigation 2: Flip a Coin https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/7be3aea6-9ea4-4e6f-bd1c-2188b90017a9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1ef26aac-3f54-4095-987f-635bee290f00
MAFS.912.S-CP.1.2	Understand that two events A and B are independent if the probability of A and B occurring together is the product of their probabilities, and use this characterization to determine if they are independent.	Probability > Explore Conditional Probability > Apply > Apply 1: Who Has the Best On-Time Record? https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/7be3aea6-9ea4-4e6f-bd1c-2188b90017a9/tabs/6dc41756-43f
MAFS.912.S-CP.1.3	Understand the conditional probability of A given B as P(A and B)/P(B), and interpret independence of A and B as saying that the conditional probability of A given B is the same as the probability of A, and the conditional probability of B given A is the same as the probability of B.	Probability > Explore Conditional Probability > Discover > Investigate > Investigation 2: Flip a Coin https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/7be3aea6-9ea4-4e6f-bd1c-2188b90017a9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1ef26aac-3f54-4095-987f-635bee290f00
MAFS.912.S-CP.1.2	Understand that two events A and B are independent if the probability of A and B occurring together is the product of their probabilities, and use this characterization to determine if they are independent.	Probability > Explore Conditional Probability > Apply > Apply 1: Who Has the Best On-Time Record? https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/7be3aea6-9ea4-4e6f-bd1c-2188b90017a9/tabs/6dc41756-43f

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MAFS.912.S-CP.1.4	Construct and interpret two-way frequency tables of data when two categories are associated with each object being classified. Use the two-way table as a sample space to decide if events are independent and to approximate conditional probabilities.	Probability > Explore Conditional Probability > Discover > Investigate > Investigation 1: Switch or Stay? https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/7be3aea6-9ea4-4e6f-bd1c-2188b90017a9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8f8433ca-62cf-4fc1-95a1-147544e80c8e
MAFS.912.S-CP.1.4	Construct and interpret two-way frequency tables of data when two categories are associated with each object being classified. Use the two-way table as a sample space to decide if events are independent and to approximate conditional probabilities.	Probability > Explore Conditional Probability > Discover > Investigate > Investigation 2: Flip a Coin https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/7be3aea6-9ea4-4e6f-bd1c-2188b90017a9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1ef26aac-3f54-4095-987f-635bee290f00
MAFS.912.S-CP.1.5	Recognize and explain the concepts of conditional probability and independence in everyday language and everyday situations.	Probability > Explore Conditional Probability > Discover > Investigate > Investigation 2: Flip a Coin https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/7be3aea6-9ea4-4e6f-bd1c-2188b90017a9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1ef26aac-3f54-4095-987f-635bee290f00
MAFS.912.S-CP.1.5	Understand that two events A and B are independent if the probability of A and B occurring together is the product of their probabilities, and use this characterization to determine if they are independent.	Probability > Explore Conditional Probability > Apply > Apply 1: Who Has the Best On-Time Record? https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/7be3aea6-9ea4-4e6f-bd1c-2188b90017a9/tabs/6dc41756-43f
MAFS.912.S-CP.1.5	Understand that two events A and B are independent if the probability of A and B occurring together is the product of their probabilities, and use this characterization to determine if they are independent.	Probability > Explore Conditional Probability > Apply > Apply 2: Are Hurricanes Stronger in the Atlantic or in the Pacific? https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/7be3aea6-9ea4-4e6f-bd1c-2188b90017a9/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/B3F8EEFB-ECA7-4751-A084-B09827399516

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MAFS.912.S-CP.2.6	Find the conditional probability of A given B as the fraction of B's outcomes that also belong to A, and interpret the answer in terms of the model.	Probability > Apply the Rules of Probability > Discover > Investigate > Investigation 1: To Tweet or Not to Tweet… https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/262f772a-4fb6-4179-917c-b9aa940cefd8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/917b8418-a11f-4375-a706-a42424b89bc6
MAFS.912.S-CP.2.7	Apply the Addition Rule, P(A or B) = P(A) + P(B) – P(A and B), and interpret the answer in terms of the model.	Probability > Apply the Rules of Probability > Discover > Investigate > Investigation 3: Basketball Probability https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/262f772a-4fb6-4179-917c-b9aa940cefd8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9bcb7836-55aa-423d-ac51-8b444f48c77e
MAFS.912.S-CP.2.8	Apply the general Multiplication Rule in a uniform probability model, P(A and B) = P(A)P(B|A) = P(B)P(A|B), and interpret the answer in terms of the model. ★	Probability > Apply the Rules of Probability > Discover > Investigate > Investigation 2: Medical Tests https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/262f772a-4fb6-4179-917c-b9aa940cefd8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8da1828e-f3fe-453e-83b1-f7c4ca5e74d4
MAFS.912.S-CP.2.8	Apply the general Multiplication Rule in a uniform probability model, P(A and B) = P(A)P(B|A) = P(B)P(A|B), and interpret the answer in terms of the model. ★	Probability > Apply the Rules of Probability > Discover > Investigate > Investigation 4: Candy Store https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/262f772a-4fb6-4179-917c-b9aa940cefd8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e43c90ea-686a-44e4-9ecb-3ff4b4affee9

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MAFS.912.S-CP.2.8	Apply the general Multiplication Rule in a uniform probability model, P(A and B) = P(A)P(B|A) = P(B)P(A|B), and interpret the answer in terms of the model. ★	Probability > Examine Permutations and Combinations > Apply > Apply 3: Which Player Will Score More? https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/262f772a-4fb6-4179-917c-b9aa940cefd8/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/6A24831E-6104-4546-B841-B3E2B12A0D47
MAFS.912.S-CP.2.9	Use permutations and combinations to compute probabilities of compound events and solve problems. ★	Probability > Examine Permutations and Combinations > Discover > Investigate > Investigation 4: What Are the Chances? https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/d823a4b5-9fa5-4f60-a4b4-6d3ed691c596/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/76573957-790b-462f-a320-96398554ad9b
MAFS.912.S-CP.2.9	Use permutations and combinations to compute probabilities of compound events and solve problems. ★	Probability > Examine Permutations and Combinations > Discover > Investigate > Investigation 2: Batter Up! https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/d823a4b5-9fa5-4f60-a4b4-6d3ed691c596/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ffda3f8a-00ad-464d-9498-89c043d56b03
MAFS.912.S-CP.2.9	Use permutations and combinations to compute probabilities of compound events and solve problems. ★	Probability > Examine Permutations and Combinations > Discover > Investigate > Investigation 3: Let Me Count the Ways https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/d823a4b5-9fa5-4f60-a4b4-6d3ed691c596/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2fc16aa3-0e54-4fa2-8cbb-d81db0c39ee9

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MAFS.912.S-IC.1.1	Understand statistics as a process for making inferences about population parameters based on a random sample from that population.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate > Investigation 1: Statistical Sampling Methods https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f7a38e1e-273b-4832-9609-19e3ffba0370
MAFS.912.S-IC.1.1	Understand statistics as a process for making inferences about population parameters based on a random sample from that population.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Engage: Phone Contest https://app.discoveryeducation.com/learn/techbook/units/952549AE-369F-4B9A-A58C-4ADA0A987949/concepts/56DB900E-880D-4AD7-9D77-AA44449CD92A
MAFS.912.S-IC.1.2	Decide if a specified model is consistent with results from a given data-generating process, e.g., using simulation.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate > Investigation 2: Modeling with Statistics https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/de8d68a0-35e1-469a-960e-36e8b209cb51
MAFS.912.S-IC.2.3	Recognize the purposes of and differences among sample surveys, experiments, and observational studies; explain how randomization relates to each.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate> Investigation 5: Observational Study vs Experiment https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/913a2aef-7ba5-4532-b538-0709ea5ee330
MAFS.912.S-IC.2.4	Use data from a sample survey to estimate a population mean or proportion; develop a margin of error through the use of simulation models for random sampling.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate > Investigation 3: Sample Proportions https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/15f2d380-da3d-40e2-bb87-d9ab34398df5

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MAFS.912.S-IC.2.4	Use data from a sample survey to estimate a population mean or proportion; develop a margin of error through the use of simulation models for random sampling.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate > Investigation 4: Sample Mean https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e64976ab-e010-4cd3-a815-24e95f72eef2
MAFS.912.S-IC.2.5	Use data from a randomized experiment to compare two treatments; use simulations to decide if differences between parameters are significant.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate> Investigation 5: Observational Study vs Experiment https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/913a2aef-7ba5-4532-b538-0709ea5ee330
MAFS.912.S-IC.2.6	Evaluate reports based on data.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Investigate> Investigation 5: Observational Study vs Experiment https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/56db900e-880d-4ad7-9d77-aa44449cd92a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/913a2aef-7ba5-4532-b538-0709ea5ee330
MAFS.912.S-ID.1.4	Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve.	Data Modeling > Explore Normal Distributions > Discover > Investigate > Investigation 1: Cookie Packaging https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/c81f9baf-b68e-436e-89bc-ae9853ba87a7/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d8622fe5-21ab-4ea2-b2fb-ade635f7a788

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MAFS.912.S-ID.1.4	Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve.	Data Modeling > Explore Normal Distributions > Discover > Investigate > Investigation 2: Interpreting Test Scores https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/c81f9baf-b68e-436e-89bc-ae9853ba87a7/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/bb58761f-182d-4f18-9ec5-2951a2e62887
MAFS.912.S-MD.2.6	Use probabilities to make fair decisions (e.g., drawing by lots, using a random number generator). ★	Probability > Apply the Rules of Probability > Discover > Engage: Pick a Card https://app.discoveryeducation.com/learn/techbook/units/BA345A88-5F0A-4BF9-89EF-52745E636826/concepts/262F772A-4FB6-4179-917C-B9AA940CEFD8
MAFS.912.S-MD.2.6	Use probabilities to make fair decisions (e.g., drawing by lots, using a random number generator). ★	Probability > Apply the Rules of Probability > Discover > Investigate > Investigation 4: Candy Store https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/262f772a-4fb6-4179-917c-b9aa940cefd8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e43c90ea-686a-44e4-9ecb-3ff4b4affee9
MAFS.912.S-MD.2.6	Use probabilities to make fair decisions (e.g., drawing by lots, using a random number generator). ★	Probability > Apply the Rules of Probability > Apply > Apply 1: How Should the Marbles Be Distributed? https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/262f772a-4fb6-4179-917c-b9aa940cefd8/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/44DF400E-ED27-4888-92F0-9BB69D8105D6
MAFS.912.S-MD.2.7	Analyze decisions and strategies using probability concepts (e.g., product testing, medical testing, pulling a hockey goalie at the end of a game). ★	Probability > Apply the Rules of Probability > Apply > Apply 3: Which Player Will Score More? https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/262f772a-4fb6-4179-917c-b9aa940cefd8/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/6A24831E-6104-4546-B841-B3E2B12A0D47

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MAFS.912.S-MD.2.7	Analyze decisions and strategies using probability concepts (e.g., product testing, medical testing, pulling a hockey goalie at the end of a game). ★	Probability > Apply the Rules of Probability > Discover > Investigate > Investigation 3:Basketball Probability https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/262f772a-4fb6-4179-917c-b9aa940cefd8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9bcb7836-55aa-423d-ac51-8b444f48c77e
MAFS.912.S-MD.2.7	Analyze decisions and strategies using probability concepts (e.g., product testing, medical testing, pulling a hockey goalie at the end of a game). ★	Probability > Apply the Rules of Probability > Discover > Investigate > Investigation 4: Candy Store https://app.discoveryeducation.com/learn/techbook/units/ba345a88-5f0a-4bf9-89ef-52745e636826/concepts/262f772a-4fb6-4179-917c-b9aa940cefd8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e43c90ea-686a-44e4-9ecb-3ff4b4affee9
MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Exponents and Logarithms > Discover and Analyze Logarithms > Discover > Investigate > Investigation 1: Exponential to Logarithmic https://app.discoveryeducation.com/learn/techbook/units/cf8b8387-94aa-4c91-aae6-9392338c16d0/concepts/d62a5973-da8a-43a9-93fc-df7dfc321f32/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/5e85a7cb-8305-456a-8cfe-881907013e36
MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Engage: Phone Contest https://app.discoveryeducation.com/learn/techbook/units/952549AE-369F-4B9A-A58C-4ADA0A987949/concepts/56DB900E-880D-4AD7-9D77-AA44449CD92A
MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Multivariate Equations and Inequalities > Solve Nonlinear Systems > Discover > Investigate > Investigation 2: Quadratic-Linear Systems https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/bbcbdc18-cb45-4ad

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MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Exponents and Logarithms > Apply Logarithmic Functions > Discover > Engage: Rock Concert https://app.discoveryeducation.com/learn/techbook/units/CF8B8387-94AA-4C91-AAE6-9392338C16D0/concepts/4FD49997-484D-4C66-BE37-9BA1CBD6958B
MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Polynomial Expressions and Equations > Analyze Polynomial Functions > Discover > Engage: Use a Polynomial to Build a Fence https://app.discoveryeducation.com/learn/techbook/units/e7bd994d-b09a-4cb0-8ee7-5b51b2a11d08/concepts/b836d41e-298c-4fd2-a60c-fec87
MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Polynomial Expressions and Equations > Analyze Polynomial Functions > Discover > Investigate > Investigation 3: Graph That Box > Hands-on Activity: Graph That Box https://app.discoveryeducation.com/learn/player/1902c5b5-e9c1-4acf-9db7-c76d58d0da17
MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Data Modeling > Collect, Analyze, and Interpret Statistical Data > Discover > Engage: Phone Contest https://app.discoveryeducation.com/learn/techbook/units/952549AE-369F-4B9A-A58C-4ADA0A987949/concepts/56DB900E-880D-4AD7-9D77-AA44449CD92A
MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Engage: Exploring a Sum of Perfect Squares https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9633a70a-4168-4b22-a842-fbdec8f989e3

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MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Trigonometry > Represent Trigonometric Functions > Discover > Investigate > Investigation 3: What Goes Around Comes Around https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d8fc0e78-f33c-418c-a238-dba55
MAFS.K12.MP.4.1	Model with mathematics.	Rational Functions > Represent Rational Functions > Discover > Engage: Small Doses https://app.discoveryeducation.com/learn/techbook/units/8101A78F-A710-402F-AB72-62F095A02E4C/concepts/92C339FC-43A8-49B4-8437-93A750960F14
MAFS.K12.MP.4.1	Model with mathematics.	Trigonometry > Apply Trigonometric Relationships > Discover > Investigate > Investigation 3: Trigonometry in Music https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d9a634ea-e02e-4830-aeb7-fca52a5fdb1d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f8ef9aaf-fb69-4a7b-9b11-7d3808e33868
MAFS.K12.MP.4.1	Model with mathematics.	Trigonometry > Apply Trigonometric Relationships > Discover > Investigate > Investigation 3: Trigonometry in Music https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d9a634ea-e02e-4830-aeb7-fca52a5fdb1d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f8ef9aaf-fb69-4a7b-9b11-7d3808e33868
MAFS.K12.MP.5.1	Use appropriate tools strategically.	Multivariate Equations and Inequalities > Solve Nonlinear Systems > Discover > Engage: How Many Times Can We Meet? https://app.discoveryeducation.com/learn/techbook/units/C7530C60-FC64-4474-A18B-ADAFEDD23288/concepts/BBCBDC18-CB45-4AD8-96D2-13A34A0D1DA5

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MAFS.K12.MP.5.1	Use appropriate tools strategically.	Multivariate Equations and Inequalities > Solve Nonlinear Systems > Discover > Investigate > Investigation 2: Quadratic-Linear Systems https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/bbcbdc18-cb45-4ad
MAFS.K12.MP.5.1	Use appropriate tools strategically.	Rational Functions > Compare Rational Functions > Discover > Engage: Analyzing Rational Function Applications https://app.discoveryeducation.com/learn/techbook/units/8101a78f-a710-402f-ab72-62f095a02e4c/concepts/e1d46969-9be8-479c-9b48-846cf49e693d
MAFS.K12.MP.6.1	Attend to precision.	Real and Complex Solutions > Determine Complex Quadratic Roots > Discover > Engage: Exploring a Sum of Perfect Squares https://app.discoveryeducation.com/learn/techbook/units/4056f64d-e36c-43a6-bbd3-56b71c2143ae/concepts/d670c360-824a-42d9-a2c6-cff97a339ad8/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9633a70a-4168-4b22-a842-fbdec8f989e3
MAFS.K12.MP.6.1	Attend to precision.	Data Modeling > Explore Normal Distributions > Discover > Investigate > Investigation 2: Interpreting Test Scores https://app.discoveryeducation.com/learn/techbook/units/9ae85681-7b9e-415f-8715-ab4589444ee9/concepts/c81f9baf-b68e-436e-89bc-ae9853ba87a7/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/bb58761f-182d-4f18-9ec5-2951a2e62887
MAFS.K12.MP.6.1	Attend to precision.	Multivariate Equations and Inequalities > Investigate Linear Systems > Discover > Investigate > Investigation 3: Galactic Mining https://app.discoveryeducation.com/learn/techbook/units/c7530c60-fc64-4474-a18b-adafedd23288/concepts/f1375335-93c1-4fee-99a9-59bec0728eda/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/fd67b734-7bb1-4315-a64e-d11273f8b729

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.)
MAFS.K12.MP.7.1	Look for and make use of structure.	Rational Functions > Represent Rational Functions > Discover > Investigate > Investigation 3: Interpreting Graphs of Rational Functions https://app.discoveryeducation.com/learn/techbook/units/8101a78f-a710-402f-ab72-62f095a02e4c/concepts/92c339fc-43a8-49b4-8437-93a750960f14/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d3753919-0e87-40a7-97f2-73354230405c
MAFS.K12.MP.7.1	Look for and make use of structure.	Trigonometry > Represent Trigonometric Functions > Discover > Investigate > Investigation 1: The Unit Circle Challenge https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d8fc0e78-f33c-418c-a238-dba55b928e13/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/738340f0-abff-4d63-8d41-27db93a0f348
MAFS.K12.MP.7.1	Look for and make use of structure.	Recursive, Explicit, and Inverse Functions > Explore Inverse Functions > Discover > Investigate > Investigation 2: Exploring Composite Functions https://app.discoveryeducation.com/learn/techbook/units/0376d32c-7b36-4afb-821f-122a9e3fcd6c/concepts/e3a4e796-36f9-4e66-9e5c-1c32a1f81d79/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/29ace809-b639-45f7-8efb-fc6f436a4df0
MAFS.K12.MP.8.1	Look for and express regularity in repeated reasoning.	Trigonometry > Apply Trigonometric Relationships > Discover > Investigate > Investigation 1: Pendulums in Motion https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d9a634ea-e02e-4830-aeb7-fca52a5fdb1d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/10a9605b-ce43-45b1-8cfa-082d156a4f87
MAFS.K12.MP.8.1	Look for and express regularity in repeated reasoning.	Probability > Apply the Rules of Probability > Discover > Engage: Pick a Card https://app.discoveryeducation.com/learn/techbook/units/BA345A88-5F0A-4BF9-89EF-52745E636826/concepts/262F772A-4FB6-4179-917C-B9AA940CEFD8

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MAFS.K12.MP.8.1	Look for and express regularity in repeated reasoning.	Trigonometry > Represent Trigonometric Functions > Discover > Investigate > Investigation 1: The Unit Circle Challenge https://app.discoveryeducation.com/learn/techbook/units/e166862a-5f39-4a92-95aa-3e561e9d1f2c/concepts/d8fc0e78-f33c-418c-a238-dba55b928