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**SUBMISSION TITLE:** Discovery Education Math Techbook (Florida) - Grade 7 with Advanced  
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**COURSE TITLE:** M/J Mathematics 2, Advanced  
**COURSE CODE:** 1205050  
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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.)
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LAFS.68.WHST.1.1.e	e. Provide a concluding statement or section that follows from and supports the argument presented.	Populations and Samples > Explore Populations and Samples > Discover > Investigate > Investigation 4: Using Samples to Make Predictions  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1491f7c6-d9a5-45c7-958f-0bc722819349">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1491f7c6-d9a5-45c7-958f-0bc722819349</a>
LAFS.68.WHST.1.1.e	e. Provide a concluding statement or section that follows from and supports the argument presented.	Populations and Samples > Explores Populations and Samples > Apply > Apply 1: How Can You Get the Survey Results You Want?  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/910C6BAE-ED3D-452A-B4DD-D57B8175FAFF">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/910C6BAE-ED3D-452A-B4DD-D57B8175FAFF</a>
LAFS.68.WHST.1.1.e	e. Provide a concluding statement or section that follows from and supports the argument presented.	Populations and Samples > Explores Populations and Samples > Apply > Apply 2: How Can You Estimate How Many Fish Are in a Lake?  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/11ddf8cb-c3f4-4deb-87ba-e697a5dee5a5">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/11ddf8cb-c3f4-4deb-87ba-e697a5dee5a5</a>
LAFS.68.WHST.2.4:	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Angles, Triangles, and Polygons > Construct Triangles and Polygons > Discover > Engage > Hands-On Activity: Picture This!  <a href="https://app.discoveryeducation.com/learn/player/480d609d-743e-40a9-8ea3-0b3ee5d1dbf9">https://app.discoveryeducation.com/learn/player/480d609d-743e-40a9-8ea3-0b3ee5d1dbf9</a>

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LAFS.68.WHST.2.4:	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Angles, Triangles, and Polygons > Construct Triangles and Polygons > Discover > Investigate > Extension: Construct Right Triangles > Draw Your Own Right Triangles  <a href="https://app.discoveryeducation.com/learn/techbook/units/4fcd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/792a681f-a660-471a-bc4c-aac113b6f19b">https://app.discoveryeducation.com/learn/techbook/units/4fcd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/792a681f-a660-471a-bc4c-aac113b6f19b</a>
LAFS.68.WHST.2.4:	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Ratios and Proportions > Investigate Ratios and Rates > Discover > Engage > Ratios in Body Parts  <a href="https://app.discoveryeducation.com/learn/techbook/units/BBE6398A-B4A7-43CE-A653-D849F49123AA/concepts/40A89961-E083-43A0-A491-3B9C91B95764">https://app.discoveryeducation.com/learn/techbook/units/BBE6398A-B4A7-43CE-A653-D849F49123AA/concepts/40A89961-E083-43A0-A491-3B9C91B95764</a>
LAFS.7.SL.1.1.a	Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.	Angles, Triangles, and Polygons > Construct Triangles and Polygons > Discover > Engage > Hands-On Activity: Picture This!  <a href="https://app.discoveryeducation.com/learn/player/480d609d-743e-40a9-8ea3-0b3ee5d1dbf9">https://app.discoveryeducation.com/learn/player/480d609d-743e-40a9-8ea3-0b3ee5d1dbf9</a>
LAFS.7.SL.1.1.a	Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.	Angles, Triangles, and Polygons > Construct Triangles and Polygons > Discover > Investigate > Extension: Construct Right Triangles > Draw Your Own Right Triangles  <a href="https://app.discoveryeducation.com/learn/techbook/units/4fcd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/792a681f-a660-471a-bc4c-aac113b6f19b">https://app.discoveryeducation.com/learn/techbook/units/4fcd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/792a681f-a660-471a-bc4c-aac113b6f19b</a>

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LAFS.7.SL.1.1.a	Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.	Ratios and Proportions > Investigate Ratios and Rates > Discover > Engage > Ratios in Body Parts  <a href="https://app.discoveryeducation.com/learn/techbook/units/BBE6398A-B4A7-43CE-A653-D849F49123AA/concepts/40A89961-E083-43A0-A491-3B9C91B95764">https://app.discoveryeducation.com/learn/techbook/units/BBE6398A-B4A7-43CE-A653-D849F49123AA/concepts/40A89961-E083-43A0-A491-3B9C91B95764</a>
LAFS.7.SL.1.1.b	Follow rules for collegial discussions, track progress toward specific goals and deadlines, and define individual roles as needed.	Angles, Triangles, and Polygons > Construct Triangles and Polygons > Discover > Engage > Hands-On Activity: Picture This!  <a href="https://app.discoveryeducation.com/learn/player/480d609d-743e-40a9-8ea3-0b3ee5d1dbf9">https://app.discoveryeducation.com/learn/player/480d609d-743e-40a9-8ea3-0b3ee5d1dbf9</a>
LAFS.7.SL.1.1.b	Follow rules for collegial discussions, track progress toward specific goals and deadlines, and define individual roles as needed.	Angles, Triangles, and Polygons > Construct Triangles and Polygons > Discover > Investigate > Extension: Construct Right Triangles > Draw Your Own Right Triangles  <a href="https://app.discoveryeducation.com/learn/techbook/units/4fcfd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/792a681f-a660-471a-bc4c-aac113b6f19b">https://app.discoveryeducation.com/learn/techbook/units/4fcfd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/792a681f-a660-471a-bc4c-aac113b6f19b</a>
LAFS.7.SL.1.1.b	Follow rules for collegial discussions, track progress toward specific goals and deadlines, and define individual roles as needed.	Ratios and Proportions > Investigate Ratios and Rates > Discover > Engage > Ratios in Body Parts  <a href="https://app.discoveryeducation.com/learn/techbook/units/BBE6398A-B4A7-43CE-A653-D849F49123AA/concepts/40A89961-E083-43A0-A491-3B9C91B95764">https://app.discoveryeducation.com/learn/techbook/units/BBE6398A-B4A7-43CE-A653-D849F49123AA/concepts/40A89961-E083-43A0-A491-3B9C91B95764</a>
LAFS.7.SL.1.1.c	Pose questions that elicit elaboration and respond to others' questions and comments with relevant observations and ideas that bring the discussion back on topic as needed.	Angles, Triangles, and Polygons > Construct Triangles and Polygons > Discover > Engage > Hands-On Activity: Picture This!  <a href="https://app.discoveryeducation.com/learn/player/480d609d-743e-40a9-8ea3-0b3ee5d1dbf9">https://app.discoveryeducation.com/learn/player/480d609d-743e-40a9-8ea3-0b3ee5d1dbf9</a>

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LAFS.7.SL.1.1.c	Pose questions that elicit elaboration and respond to others' questions and comments with relevant observations and ideas that bring the discussion back on topic as needed.	Angles, Triangles, and Polygons > Construct Triangles and Polygons > Discover > Investigate > Extension: Construct Right Triangles > Draw Your Own Right Triangles  <a href="https://app.discoveryeducation.com/learn/techbook/units/4fcd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/792a681f-a660-471a-bc4c-aac113b6f19b">https://app.discoveryeducation.com/learn/techbook/units/4fcd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/792a681f-a660-471a-bc4c-aac113b6f19b</a>
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LAFS.7.SL.1.1.d	d. Acknowledge new information expressed by others and, when warranted, modify their own views.	Angles, Triangles, and Polygons > Construct Triangles and Polygons > Discover > Engage > Hands-On Activity: Picture This!  <a href="https://app.discoveryeducation.com/learn/player/480d609d-743e-40a9-8ea3-0b3ee5d1dbf9">https://app.discoveryeducation.com/learn/player/480d609d-743e-40a9-8ea3-0b3ee5d1dbf9</a>
LAFS.7.SL.1.1.d	d. Acknowledge new information expressed by others and, when warranted, modify their own views.	Angles, Triangles, and Polygons > Construct Triangles and Polygons > Discover > Investigate > Extension: Construct Right Triangles > Draw Your Own Right Triangles  <a href="https://app.discoveryeducation.com/learn/techbook/units/4fcd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/792a681f-a660-471a-bc4c-aac113b6f19b">https://app.discoveryeducation.com/learn/techbook/units/4fcd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/792a681f-a660-471a-bc4c-aac113b6f19b</a>

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LAFS.7.SL.1.1.d	d. Acknowledge new information expressed by others and, when warranted, modify their own views.	Populations and Samples > Explore Populations and Samples > Discover > Investigate > Investigation 4: Using Samples to Make Predictions  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1491f7c6-d9a5-45c7-958f-0bc722819349">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1491f7c6-d9a5-45c7-958f-0bc722819349</a>
LAFS.7.SL.1.2	Analyze the main ideas and supporting details presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how the ideas clarify a topic, text, or issue under study.	Populations and Samples > Explores Populations and Samples > Apply > Apply 2: How Can You Estimate How Many Fish Are in a Lake?  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/11ddf8cb-c3f4-4deb-87ba-e697a5dee5a5">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/11ddf8cb-c3f4-4deb-87ba-e697a5dee5a5</a>
LAFS.7.SL.1.2	Analyze the main ideas and supporting details presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how the ideas clarify a topic, text, or issue under study.	Populations and Samples > Explores Populations and Samples > Apply > Apply 3: How Did Researchers Count the Gorilla Population in Congo?  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/a34af98f-ef4f-487d-b16c-4b73652cb7ec">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/a34af98f-ef4f-487d-b16c-4b73652cb7ec</a>
LAFS.7.SL.1.2	Analyze the main ideas and supporting details presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how the ideas clarify a topic, text, or issue under study.	Populations and Samples > Compare Populations and Samples > Discover > Engage > Prepared to Win > Graphing Calculator Exploration  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/27b8ce5e-a67f-44a8-90bb-8fe47882aa97/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f8f2b6c7-1ae5-4d27-8e13-603fa7ac1c28">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/27b8ce5e-a67f-44a8-90bb-8fe47882aa97/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f8f2b6c7-1ae5-4d27-8e13-603fa7ac1c28</a>

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LAFS.7.SL.1.3	Delineate a speaker’s argument and specific claims, evaluating the soundness of the reasoning and the relevance and sufficiency of the evidence.	Angles, Triangles, and Polygons > Construct Triangles and Polygons > Discover > Engage > Hands-On Activity: Picture This!  <a href="https://app.discoveryeducation.com/learn/player/480d609d-743e-40a9-8ea3-0b3ee5d1dbf9">https://app.discoveryeducation.com/learn/player/480d609d-743e-40a9-8ea3-0b3ee5d1dbf9</a>
LAFS.7.SL.1.3	Delineate a speaker’s argument and specific claims, evaluating the soundness of the reasoning and the relevance and sufficiency of the evidence.	Populations and Samples > Explores Populations and Samples > Apply > Apply 2: How Can You Estimate How Many Fish Are in a Lake?  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/11ddf8cb-c3f4-4deb-87ba-e697a5dee5a5">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/11ddf8cb-c3f4-4deb-87ba-e697a5dee5a5</a>
LAFS.7.SL.1.3	Delineate a speaker’s argument and specific claims, evaluating the soundness of the reasoning and the relevance and sufficiency of the evidence.	Populations and Samples > Explores Populations and Samples > Apply > Apply 3: How Did Researchers Count the Gorilla Population in Congo?  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/a34af98f-ef4f-487d-b16c-4b73652cb7ec">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/a34af98f-ef4f-487d-b16c-4b73652cb7ec</a>
LAFS.7.SL.2.4	Present claims and findings, emphasizing salient points in a focused, coherent manner with pertinent descriptions, facts, details, and examples; use appropriate eye contact, adequate volume, and clear pronunciation.	Angles, Triangles, and Polygons > Construct Triangles and Polygons > Discover > Investigate > Extension: Construct Right Triangles > Draw Your Own Right Triangles  <a href="https://app.discoveryeducation.com/learn/techbook/units/4fcfd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/792a681f-a660-471a-bc4c-aac113b6f19b">https://app.discoveryeducation.com/learn/techbook/units/4fcfd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/792a681f-a660-471a-bc4c-aac113b6f19b</a>

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LAFS.7.SL.2.4	Present claims and findings, emphasizing salient points in a focused, coherent manner with pertinent descriptions, facts, details, and examples; use appropriate eye contact, adequate volume, and clear pronunciation.	Populations and Samples > Explores Populations and Samples > Apply > Apply 1: How Can You Get the Survey Results You Want?  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/910C6BAE-ED3D-452A-B4DD-D57B8175FAFF">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/910C6BAE-ED3D-452A-B4DD-D57B8175FAFF</a>
LAFS.7.SL.2.4	Present claims and findings, emphasizing salient points in a focused, coherent manner with pertinent descriptions, facts, details, and examples; use appropriate eye contact, adequate volume, and clear pronunciation.	Populations and Samples > Explores Populations and Samples > Apply > Apply 2: How Can You Estimate How Many Fish Are in a Lake?  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/11ddf8cb-c3f4-4deb-87ba-e697a5dee5a5">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/11ddf8cb-c3f4-4deb-87ba-e697a5dee5a5</a>
MAFS.7.EE.2.3	Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.	Equivalent Expressions > Analyze Algebraic Expressions > Discover > Investigate > Investigation 2: Evaluating Algebraic Expressions > Hands-On Activity: Chicken Dippers  <a href="https://app.discoveryeducation.com/learn/techbook/units/a7aef4db-0857-4c8c-81a8-5c2b8c0bc0fe/concepts/7e82d58f-8ff2-4b73-a1bd-2d8ef70b626f/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8ef5ebff-f8b8-4d6e-9da6-31967fd80129">https://app.discoveryeducation.com/learn/techbook/units/a7aef4db-0857-4c8c-81a8-5c2b8c0bc0fe/concepts/7e82d58f-8ff2-4b73-a1bd-2d8ef70b626f/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8ef5ebff-f8b8-4d6e-9da6-31967fd80129</a>
MAFS.7.EE.2.3	Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.	Equivalent Expressions > Combine Algebraic Expressions > Discover > Investigate > Investigation 2: Factoring Expressions > Interactive: Your First Loot Haul!  <a href="https://app.discoveryeducation.com/learn/techbook/units/a7aef4db-0857-4c8c-81a8-5c2b8c0bc0fe/concepts/c54efd2e-3957-425b-85ce-32fb7534a010/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/36d4c361-e02e-466a-9460-38b1a28c5b0a">https://app.discoveryeducation.com/learn/techbook/units/a7aef4db-0857-4c8c-81a8-5c2b8c0bc0fe/concepts/c54efd2e-3957-425b-85ce-32fb7534a010/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/36d4c361-e02e-466a-9460-38b1a28c5b0a</a>

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MAFS.7.EE.2.3	Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.	Equations and Inequalities > Solve Algebraic Inequalities > Discover > Investigate > Investigation 2: Solving Inequalities  <a href="https://app.discoveryeducation.com/learn/techbook/units/8eaffca7-e683-45b2-b2ec-1f0a6391cfe2/concepts/fed583a1-b78b-42bb-bb11-3a7a7a650783/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/04dfad1d-d68f-43d1-9624-2e6db73faed0">https://app.discoveryeducation.com/learn/techbook/units/8eaffca7-e683-45b2-b2ec-1f0a6391cfe2/concepts/fed583a1-b78b-42bb-bb11-3a7a7a650783/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/04dfad1d-d68f-43d1-9624-2e6db73faed0</a>
MAFS.7.EE.2.4.a	Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$ , where $p$ , $q$ , and $r$ are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach.	Equations and Inequalities > Solve Algebraic Equations > Discover > Engage > Field Trips  <a href="https://app.discoveryeducation.com/learn/techbook/units/8EAFFCA7-E683-45B2-B2EC-1F0A6391CFE2/concepts/07F850D8-8F51-4A80-9898-F2414120EA95">https://app.discoveryeducation.com/learn/techbook/units/8EAFFCA7-E683-45B2-B2EC-1F0A6391CFE2/concepts/07F850D8-8F51-4A80-9898-F2414120EA95</a>
MAFS.7.EE.2.4.a	Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$ , where $p$ , $q$ , and $r$ are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach.	Equations and Inequalities > Solve Algebraic Equations > Discover > Investigate > Investigation 4: Into Thin Air  <a href="https://app.discoveryeducation.com/learn/techbook/units/8eaffca7-e683-45b2-b2ec-1f0a6391cfe2/concepts/07f850d8-8f51-4a80-9898-f2414120ea95/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a268ff25-2a8a-440d-9576-b9a7f3546c04">https://app.discoveryeducation.com/learn/techbook/units/8eaffca7-e683-45b2-b2ec-1f0a6391cfe2/concepts/07f850d8-8f51-4a80-9898-f2414120ea95/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a268ff25-2a8a-440d-9576-b9a7f3546c04</a>
MAFS.7.EE.2.4.a	Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$ , where $p$ , $q$ , and $r$ are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach.	Equations and Inequalities > Solve Algebraic Equations > Apply > Apply 1: Would You Save Money in the Long Run Buying Appliances That Are More Efficient?  <a href="https://app.discoveryeducation.com/learn/techbook/units/8eaffca7-e683-45b2-b2ec-1f0a6391cfe2/concepts/07f850d8-8f51-4a80-9898-f2414120ea95/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/b8f652f0-fab4-4fc5-9d18-f8095ddd9b64">https://app.discoveryeducation.com/learn/techbook/units/8eaffca7-e683-45b2-b2ec-1f0a6391cfe2/concepts/07f850d8-8f51-4a80-9898-f2414120ea95/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/b8f652f0-fab4-4fc5-9d18-f8095ddd9b64</a>

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MAFS.7.EE.2.4.b	Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$ , where $p$ , $q$ , and $r$ are specific rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem.	Equations and Inequalities > Solve Algebraic Inequalities > Discover > Investigate > Investigation 1: Modeling Algebraic Inequalities  <a href="https://app.discoveryeducation.com/learn/techbook/units/8eaffca7-e683-45b2-b2ec-1f0a6391cfe2/concepts/fed583a1-b78b-42bb-bb11-3a7a7a650783/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/446f1308-5d7a-4d7a-bfb6-2c5e44c59079">https://app.discoveryeducation.com/learn/techbook/units/8eaffca7-e683-45b2-b2ec-1f0a6391cfe2/concepts/fed583a1-b78b-42bb-bb11-3a7a7a650783/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/446f1308-5d7a-4d7a-bfb6-2c5e44c59079</a>
MAFS.7.EE.2.4.b	Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$ , where $p$ , $q$ , and $r$ are specific rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem.	Equations and Inequalities > Solve Algebraic Inequalities > Discover > Investigate > Investigation 1: Modeling Algebraic Inequalities > Check for Understanding  <a href="https://app.discoveryeducation.com/learn/player/3d434863-12c9-4a18-9aa8-319520edf344">https://app.discoveryeducation.com/learn/player/3d434863-12c9-4a18-9aa8-319520edf344</a>
MAFS.7.EE.2.4.b	Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$ , where $p$ , $q$ , and $r$ are specific rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem.	Equations and Inequalities > Solve Algebraic Inequalities > Discover > Investigate > Investigation 3: Graphing Inequalities  <a href="https://app.discoveryeducation.com/learn/techbook/units/8eaffca7-e683-45b2-b2ec-1f0a6391cfe2/concepts/fed583a1-b78b-42bb-bb11-3a7a7a650783/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8980cefa-6b7b-4d45-83d6-d47bc8a3a1e0">https://app.discoveryeducation.com/learn/techbook/units/8eaffca7-e683-45b2-b2ec-1f0a6391cfe2/concepts/fed583a1-b78b-42bb-bb11-3a7a7a650783/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8980cefa-6b7b-4d45-83d6-d47bc8a3a1e0</a>
MAFS.7.G.1.1	Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.	Proportional Reasoning and Scale > Design Scale Models > Discover > Investigate > Investigation 1: Building to Scale  <a href="https://app.discoveryeducation.com/learn/techbook/units/772bd3f8-33b2-4edc-b1c7-c4c4601927ab/concepts/d5bdd478-1203-4a6f-bbdb-ac76efa79b54/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/edb58816-f11c-4a12-84dc-d88a48463267">https://app.discoveryeducation.com/learn/techbook/units/772bd3f8-33b2-4edc-b1c7-c4c4601927ab/concepts/d5bdd478-1203-4a6f-bbdb-ac76efa79b54/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/edb58816-f11c-4a12-84dc-d88a48463267</a>

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MAFS.7.G.1.1	Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.	Proportional Reasoning and Scale > Design Scale Models > Discover > Investigate > Investigation 2: Plan Your Vacation  <a href="https://app.discoveryeducation.com/learn/techbook/units/772bd3f8-33b2-4edc-b1c7-c4c4601927ab/concepts/d5bdd478-1203-4a6f-bbdb-ac76efa79b54/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d8bff43e-e8f8-4c82-8052-cd1506118dcc">https://app.discoveryeducation.com/learn/techbook/units/772bd3f8-33b2-4edc-b1c7-c4c4601927ab/concepts/d5bdd478-1203-4a6f-bbdb-ac76efa79b54/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d8bff43e-e8f8-4c82-8052-cd1506118dcc</a>
MAFS.7.G.1.1	Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.	Proportional Reasoning and Scale > Design Scale Models > Discover > Investigate > Investigation 3: Find the Mistake  <a href="https://app.discoveryeducation.com/learn/techbook/units/772bd3f8-33b2-4edc-b1c7-c4c4601927ab/concepts/d5bdd478-1203-4a6f-bbdb-ac76efa79b54/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/99f5ccd4-42cb-451d-a2c5-cbd4f67380d2">https://app.discoveryeducation.com/learn/techbook/units/772bd3f8-33b2-4edc-b1c7-c4c4601927ab/concepts/d5bdd478-1203-4a6f-bbdb-ac76efa79b54/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/99f5ccd4-42cb-451d-a2c5-cbd4f67380d2</a>
MAFS.7.G.1.2	Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.	Angles, Triangles, and Polygons > Construct Triangles and Polygons > Discover > Investigate > Investigation 2: Copy This!  <a href="https://app.discoveryeducation.com/learn/techbook/units/4fcfd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e246f1ac-fb08-40ea-946c-c4b585fb9115">https://app.discoveryeducation.com/learn/techbook/units/4fcfd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e246f1ac-fb08-40ea-946c-c4b585fb9115</a>
MAFS.7.G.1.2	Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.	Angles, Triangles, and Polygons > Construct Triangles and Polygons > Discover > Investigate > Investigation 3: Construct Right Triangles > Draw Your Own Right Triangles  <a href="https://app.discoveryeducation.com/learn/techbook/units/4fcfd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/792a681f-a660-471a-bc4c-aac113b6f19b">https://app.discoveryeducation.com/learn/techbook/units/4fcfd8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/792a681f-a660-471a-bc4c-aac113b6f19b</a>

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MAFS.7.G.1.2	Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.	Angles, Triangles, and Polygons > Construct Triangles > Discover > Investigate > Investigation 1: What's the Long and Short of It?  <a href="https://app.discoveryeducation.com/learn/techbook/units/4fc8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/04315a10-a9fb-41aa-8645-23a2e00b8700">https://app.discoveryeducation.com/learn/techbook/units/4fc8ed4-663c-47c8-a086-922bae8524e7/concepts/90aae01d-0f30-4db9-afe0-ab8c1cb57a85/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/04315a10-a9fb-41aa-8645-23a2e00b8700</a>
MAFS.7.G.1.3	Describe the two-dimensional figures that result from slicing three-dimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids.	Solid Figures > Explore Three-Dimensional Shapes > Discover > Engage > 3D to 2D > Hands-On Activity: Visualize the Figure  <a href="https://app.discoveryeducation.com/learn/player/1e3668fb-bbc6-449a-af25-3c0e9e6f0004">https://app.discoveryeducation.com/learn/player/1e3668fb-bbc6-449a-af25-3c0e9e6f0004</a>
MAFS.7.G.1.3	Describe the two-dimensional figures that result from slicing three-dimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids.	Solid Figures > Explore Three-Dimensional Shapes > Discover > Investigate > Investigation 1: Cross-Sectional Collages > Interactive: Prism and Pyramid Slicer  <a href="https://app.discoveryeducation.com/learn/techbook/units/fc000283-5e14-4b14-80f2-0e334586a0db/concepts/aa206339-c3fb-43a8-8a04-05eb3fd652ce/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4d581a9c-2ea7-4622-b4c7-36ffe7b1dfa0">https://app.discoveryeducation.com/learn/techbook/units/fc000283-5e14-4b14-80f2-0e334586a0db/concepts/aa206339-c3fb-43a8-8a04-05eb3fd652ce/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4d581a9c-2ea7-4622-b4c7-36ffe7b1dfa0</a>
MAFS.7.G.1.3	Describe the two-dimensional figures that result from slicing three-dimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids.	Solid Figures > Explore Three-Dimensional Shapes > Discover > Investigate > Investigation 1: Cross-Sectional Collages > Check for Understanding  <a href="https://app.discoveryeducation.com/learn/player/f67c0f31-6e5f-4b56-8c92-e8ded8bd7ba1">https://app.discoveryeducation.com/learn/player/f67c0f31-6e5f-4b56-8c92-e8ded8bd7ba1</a>

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MAFS.7.G.2.4	Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.	Circles > Investigate Circles > Discover > Investigate > Investigation 1: The Mystery of Circles  <a href="https://app.discoveryeducation.com/learn/techbook/units/56cff4d8-19be-47b0-a537-1a750a637cd5/concepts/637d0741-f072-4e47-92ed-c971816af755/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6b107ae0-c24b-4a38-a2a1-1bfa13f9a8b2">https://app.discoveryeducation.com/learn/techbook/units/56cff4d8-19be-47b0-a537-1a750a637cd5/concepts/637d0741-f072-4e47-92ed-c971816af755/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6b107ae0-c24b-4a38-a2a1-1bfa13f9a8b2</a>
MAFS.7.G.2.4	Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.	Circles > Investigate Circles > Discover > Investigate > Investigation 2: Formulas for Circumference  <a href="https://app.discoveryeducation.com/learn/techbook/units/56cff4d8-19be-47b0-a537-1a750a637cd5/concepts/637d0741-f072-4e47-92ed-c971816af755/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3f251454-1135-4f0b-ba1b-18be24812015">https://app.discoveryeducation.com/learn/techbook/units/56cff4d8-19be-47b0-a537-1a750a637cd5/concepts/637d0741-f072-4e47-92ed-c971816af755/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3f251454-1135-4f0b-ba1b-18be24812015</a>
MAFS.7.G.2.4	Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.	Circles > Investigate Circles > Discover > Investigate > Investigation 3: Determine the Area of a Circle  <a href="https://app.discoveryeducation.com/learn/techbook/units/56cff4d8-19be-47b0-a537-1a750a637cd5/concepts/637d0741-f072-4e47-92ed-c971816af755/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f7a06cea-90b3-4dac-b5e5-2c32b6ce4e87">https://app.discoveryeducation.com/learn/techbook/units/56cff4d8-19be-47b0-a537-1a750a637cd5/concepts/637d0741-f072-4e47-92ed-c971816af755/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/f7a06cea-90b3-4dac-b5e5-2c32b6ce4e87</a>
MAFS.7.G.2.5	Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.	Angles, Triangles, and Polygons > Understand Angle Relationships > Discover > Engage > What Angle Do You Need? > Hands-On Activity: What's Your Angle?  <a href="https://app.discoveryeducation.com/learn/player/053c588a-13c1-43a8-b757-212766424152">https://app.discoveryeducation.com/learn/player/053c588a-13c1-43a8-b757-212766424152</a>
MAFS.7.G.2.5	Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.	Angles, Triangles, and Polygons > Understand Angle Relationships > Discover > Investigate > Investigation 3: Follow the Path > Check for Understanding  <a href="https://app.discoveryeducation.com/learn/player/dc37e887-c4d5-4c4d-bae1-72e417d0548d">https://app.discoveryeducation.com/learn/player/dc37e887-c4d5-4c4d-bae1-72e417d0548d</a>

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MAFS.7.G.2.5	Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.	Angles, Triangles, and Polygons > Understand Angle Relationships > Discover > Investigate > Investigation 2: Angle Explorer > Interactive: Angle Explorer  <a href="https://app.discoveryeducation.com/learn/techbook/units/4fcfd8ed4-663c-47c8-a086-922bae8524e7/concepts/8a0970d3-2435-4883-94dd-5da5b13dee32/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/bb3c88f0-6cfa-4b88-a4c1-6ab8e4551498">https://app.discoveryeducation.com/learn/techbook/units/4fcfd8ed4-663c-47c8-a086-922bae8524e7/concepts/8a0970d3-2435-4883-94dd-5da5b13dee32/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/bb3c88f0-6cfa-4b88-a4c1-6ab8e4551498</a>
MAFS.7.G.2.6	Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.	Solid Figures > Explore Three-Dimensional Shapes > Discover > Investigate > Investigation 2: Surface Area of Prisms  <a href="https://app.discoveryeducation.com/learn/techbook/units/fc000283-5e14-4b14-80f2-0e334586a0db/concepts/aa206339-c3fb-43a8-8a04-05eb3fd652ce/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/af10b1b6-001b-4847-87f3-eab84f7d1841">https://app.discoveryeducation.com/learn/techbook/units/fc000283-5e14-4b14-80f2-0e334586a0db/concepts/aa206339-c3fb-43a8-8a04-05eb3fd652ce/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/af10b1b6-001b-4847-87f3-eab84f7d1841</a>
MAFS.7.G.2.6	Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.	Solid Figures > Explore Three-Dimensional Shapes > Discover > Investigate > Investigation 3: Surface Area of Pyramids  <a href="https://app.discoveryeducation.com/learn/techbook/units/fc000283-5e14-4b14-80f2-0e334586a0db/concepts/aa206339-c3fb-43a8-8a04-05eb3fd652ce/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9aa3a0ac-ecd9-4a37-93a3-e6a6cf99b2f0">https://app.discoveryeducation.com/learn/techbook/units/fc000283-5e14-4b14-80f2-0e334586a0db/concepts/aa206339-c3fb-43a8-8a04-05eb3fd652ce/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9aa3a0ac-ecd9-4a37-93a3-e6a6cf99b2f0</a>
MAFS.7.G.2.6	Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.	Solid Figures > Explore Three-Dimensional Shapes > Discover > Investigate > Investigation 6: Surface Area and Volume of Composite Figures  <a href="https://app.discoveryeducation.com/learn/techbook/units/fc000283-5e14-4b14-80f2-0e334586a0db/concepts/aa206339-c3fb-43a8-8a04-05eb3fd652ce/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3a760b30-1d55-4bdf-a118-2e44bf81faca">https://app.discoveryeducation.com/learn/techbook/units/fc000283-5e14-4b14-80f2-0e334586a0db/concepts/aa206339-c3fb-43a8-8a04-05eb3fd652ce/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3a760b30-1d55-4bdf-a118-2e44bf81faca</a>

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MAFS.7.SP.1.1	Understand that statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid inferences.	Populations and Samples > Explore Populations and Samples > Discover > Engage > Where Do Statistics Come From?  <a href="https://app.discoveryeducation.com/learn/techbook/units/AFA4BF0F-14A7-46F0-8C35-5511995B991B/concepts/F9CD5971-C64E-4ACC-8760-63756E5337D1">https://app.discoveryeducation.com/learn/techbook/units/AFA4BF0F-14A7-46F0-8C35-5511995B991B/concepts/F9CD5971-C64E-4ACC-8760-63756E5337D1</a>
MAFS.7.SP.1.1	Understand that statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid inferences.	Populations and Samples > Explore Populations and Samples > Discover > Investigate > Investigation 1: How Does a Sample Compare to a Population?  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c71f73c8-d007-4a4f-81dc-b9c847014300">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c71f73c8-d007-4a4f-81dc-b9c847014300</a>
MAFS.7.SP.1.1	Understand that statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid inferences.	Populations and Samples > Explore Populations and Samples > Discover > Investigate > Investigation 1: How Does a Sample Compare to a Population? > Check for Understanding  <a href="https://app.discoveryeducation.com/learn/player/c95db794-90bc-40cc-966a-80c90f34cdc6">https://app.discoveryeducation.com/learn/player/c95db794-90bc-40cc-966a-80c90f34cdc6</a>
MAFS.7.SP.1.2	Use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions.	Populations and Samples > Explore Populations and Samples > Discover > Investigate > Investigation 1: How Does a Sample Compare to a Population?  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c71f73c8-d007-4a4f-81dc-b9c847014300">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c71f73c8-d007-4a4f-81dc-b9c847014300</a>

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MAFS.7.SP.1.2	Use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions.	Populations and Samples > Explore Populations and Samples > Discover > Investigate > Investigation 4: Using Samples to Make Predictions  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1491f7c6-d9a5-45c7-958f-0bc722819349">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/f9cd5971-c64e-4acc-8760-63756e5337d1/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1491f7c6-d9a5-45c7-958f-0bc722819349</a>
MAFS.7.SP.1.2	Use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions.	Populations and Samples > Explore Populations and Samples > Discover > Investigate > Investigation 4: Using Samples to Make Predictions > Check for Understanding  <a href="https://app.discoveryeducation.com/learn/player/fd562969-ca50-4447-984d-28ceff1e0060">https://app.discoveryeducation.com/learn/player/fd562969-ca50-4447-984d-28ceff1e0060</a>
MAFS.7.SP.2.3	Informally assess the degree of visual overlap of two numerical data distributions with similar variabilities, measuring the difference between the centers by expressing it as a multiple of a measure of variability.	Populations and Samples > Compare Populations and Samples > Discover > Investigate > Investigation 2: Who Will Get Picked > Check for Understanding  <a href="https://app.discoveryeducation.com/learn/player/8f00e46c-0eea-4d1d-8d14-b411fe1a1253">https://app.discoveryeducation.com/learn/player/8f00e46c-0eea-4d1d-8d14-b411fe1a1253</a>
MAFS.7.SP.2.3	Informally assess the degree of visual overlap of two numerical data distributions with similar variabilities, measuring the difference between the centers by expressing it as a multiple of a measure of variability.	Populations and Samples > Compare Populations and Samples > Discover > Investigate > Investigation 3: Comparing Populations  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/27b8ce5e-a67f-44a8-90bb-8fe47882aa97/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/126cef7d-5ec3-4315-aa9c-f7d9df57f8b0">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/27b8ce5e-a67f-44a8-90bb-8fe47882aa97/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/126cef7d-5ec3-4315-aa9c-f7d9df57f8b0</a>
MAFS.7.SP.2.3	Informally assess the degree of visual overlap of two numerical data distributions with similar variabilities, measuring the difference between the centers by expressing it as a multiple of a measure of variability.	Populations and Samples > Compare Populations and Samples > Discover > Investigate > Investigation 4: Comparing Stimuli  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/27b8ce5e-a67f-44a8-90bb-8fe47882aa97/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a7ef211b-cc5d-4e7f-a1ce-12c74eb1eef3">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/27b8ce5e-a67f-44a8-90bb-8fe47882aa97/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a7ef211b-cc5d-4e7f-a1ce-12c74eb1eef3</a>

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MAFS.7.SP.2.4	Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations.	Populations and Samples > Compare Populations and Samples > Discover > Investigate > Investigation 2: Who Will Get Picked > Check for Understanding  <a href="https://app.discoveryeducation.com/learn/player/8f00e46c-0eea-4d1d-8d14-b411fe1a1253">https://app.discoveryeducation.com/learn/player/8f00e46c-0eea-4d1d-8d14-b411fe1a1253</a>
MAFS.7.SP.2.4	Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations.	Populations and Samples > Compare Populations and Samples > Discover > Investigate > Investigation 3: Comparing Populations  <a href="https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/27b8ce5e-a67f-44a8-90bb-8fe47882aa97/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/126cef7d-5ec3-4315-aa9c-f7d9df57f8b0">https://app.discoveryeducation.com/learn/techbook/units/afa4bf0f-14a7-46f0-8c35-5511995b991b/concepts/27b8ce5e-a67f-44a8-90bb-8fe47882aa97/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/126cef7d-5ec3-4315-aa9c-f7d9df57f8b0</a>
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MAFS.7.SP.3.5	Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger numbers indicate greater likelihood. A probability near 0 indicates an unlikely event, a probability around 1/2 indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event.	Probability of Random Events > Predict Probabilities > Discover > Engage > Understanding Likelihood  <a href="https://app.discoveryeducation.com/learn/techbook/units/3EDDFB92-C8E0-4776-B831-81045EBD4F9F/concepts/0DE3746C-C0CA-43E6-83DF-4ADAF5A99933">https://app.discoveryeducation.com/learn/techbook/units/3EDDFB92-C8E0-4776-B831-81045EBD4F9F/concepts/0DE3746C-C0CA-43E6-83DF-4ADAF5A99933</a>

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MAFS.7.SP.3.5	Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger numbers indicate greater likelihood. A probability near 0 indicates an unlikely event, a probability around 1/2 indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event.	Probability of Random Events > Predict Probabilities > Discover > Investigate > Investigation 1: How Likely?  <a href="https://app.discoveryeducation.com/learn/techbook/units/3eddfb92-c8e0-4776-b831-81045ebd4f9f/concepts/0de3746c-c0ca-43e6-83df-4adaf5a99933/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/030db5d3-4a78-44a5-b3a6-7a9da622d5c9">https://app.discoveryeducation.com/learn/techbook/units/3eddfb92-c8e0-4776-b831-81045ebd4f9f/concepts/0de3746c-c0ca-43e6-83df-4adaf5a99933/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/030db5d3-4a78-44a5-b3a6-7a9da622d5c9</a>
MAFS.7.SP.3.5	Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger numbers indicate greater likelihood. A probability near 0 indicates an unlikely event, a probability around 1/2 indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event.	Probability of Random Events > Predict Probabilities > Practice > Coach  <a href="https://app.discoveryeducation.com/core:assessment/coach?practice=69aa5031-ee9f-4304-ade9-73c1c68f9f2d&amp;conceptGuid=0de3746c-c0ca-43e6-83df-4adaf5a99933&amp;courseGuid=724c539b-ecff-4729-8f7a-d53a5bc71043&amp;unitGuid=3eddfb92-c8e0-4776-b831-81045ebd4f9f&amp;teacherMode=true">https://app.discoveryeducation.com/core:assessment/coach?practice=69aa5031-ee9f-4304-ade9-73c1c68f9f2d&amp;conceptGuid=0de3746c-c0ca-43e6-83df-4adaf5a99933&amp;courseGuid=724c539b-ecff-4729-8f7a-d53a5bc71043&amp;unitGuid=3eddfb92-c8e0-4776-b831-81045ebd4f9f&amp;teacherMode=true</a>
MAFS.7.SP.3.6	Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability.	Probability of Random Events > Model Probabilities > Discover > Engage: Use Experimental Probability to Make Predictions  <a href="https://app.discoveryeducation.com/learn/techbook/units/3EDDFB92-C8E0-4776-B831-81045EBD4F9F/concepts/22A90D5E-04E1-4316-8D09-4DA85B1DEA00">https://app.discoveryeducation.com/learn/techbook/units/3EDDFB92-C8E0-4776-B831-81045EBD4F9F/concepts/22A90D5E-04E1-4316-8D09-4DA85B1DEA00</a>
MAFS.7.SP.3.6	Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability.	Probability of Random Events > Model Probabilities > Discover > Investigate > Investigation 1: Developing a Probability Model by Observing Frequencies in Data  <a href="https://app.discoveryeducation.com/learn/techbook/units/3eddfb92-c8e0-4776-b831-81045ebd4f9f/concepts/22a90d5e-04e1-4316-8d09-4da85b1dea00/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6fad973f-a1da-4ce1-8563-4f28c22f0c72">https://app.discoveryeducation.com/learn/techbook/units/3eddfb92-c8e0-4776-b831-81045ebd4f9f/concepts/22a90d5e-04e1-4316-8d09-4da85b1dea00/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6fad973f-a1da-4ce1-8563-4f28c22f0c72</a>

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MAFS.7.SP.3.6	Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability.	Probability of Random Events > Model Probabilities > Discover > Investigate > Investigation 2: Meteorite Warning > Hands-On Activity: Meteorite Impact  <a href="https://app.discoveryeducation.com/learn/techbook/units/3eddfb92-c8e0-4776-b831-81045ebd4f9f/concepts/22a90d5e-04e1-4316-8d09-4da85b1dea00/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/067d21a3-77ed-4921-9f9a-23b9508451f1">https://app.discoveryeducation.com/learn/techbook/units/3eddfb92-c8e0-4776-b831-81045ebd4f9f/concepts/22a90d5e-04e1-4316-8d09-4da85b1dea00/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/067d21a3-77ed-4921-9f9a-23b9508451f1</a>
MAFS.7.SP.3.7.a	Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events.	Probability of Random Events > Model Probabilities > Discover > Engage:Use Experimental Probability to Make Predictions  <a href="https://app.discoveryeducation.com/learn/techbook/units/3EDDFB92-C8E0-4776-B831-81045EBD4F9F/concepts/22A90D5E-04E1-4316-8D09-4DA85B1DEA00">https://app.discoveryeducation.com/learn/techbook/units/3EDDFB92-C8E0-4776-B831-81045EBD4F9F/concepts/22A90D5E-04E1-4316-8D09-4DA85B1DEA00</a>
MAFS.7.SP.3.7.a	Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events.	Probability of Random Events > Model Probabilities > Discover > Investigate > Investigation 1: Developing a Probability Model by Observing Frequencies in Data > Hands-On Activity: Probability Models  <a href="https://app.discoveryeducation.com/learn/player/435a4707-2678-48c8-b18b-44750301427c">https://app.discoveryeducation.com/learn/player/435a4707-2678-48c8-b18b-44750301427c</a>
MAFS.7.SP.3.7.a	Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events.	Probability of Random Events > Model Probabilities > Discover > Investigate > Investigation 2: Meteorite Warning > Hands-On Activity: Meteorite Impact  <a href="https://app.discoveryeducation.com/learn/techbook/units/3eddfb92-c8e0-4776-b831-81045ebd4f9f/concepts/22a90d5e-04e1-4316-8d09-4da85b1dea00/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/067d21a3-77ed-4921-9f9a-23b9508451f1">https://app.discoveryeducation.com/learn/techbook/units/3eddfb92-c8e0-4776-b831-81045ebd4f9f/concepts/22a90d5e-04e1-4316-8d09-4da85b1dea00/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/067d21a3-77ed-4921-9f9a-23b9508451f1</a>
MAFS.7.SP.3.7.b	Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process.	Probability of Random Events > Model Probabilities > Discover > Investigate > Investigation 2: Meteorite Warning > Hands-On Activity: Meteorite Impact  <a href="https://app.discoveryeducation.com/learn/techbook/units/3eddfb92-c8e0-4776-b831-81045ebd4f9f/concepts/22a90d5e-04e1-4316-8d09-4da85b1dea00/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/067d21a3-77ed-4921-9f9a-23b9508451f1">https://app.discoveryeducation.com/learn/techbook/units/3eddfb92-c8e0-4776-b831-81045ebd4f9f/concepts/22a90d5e-04e1-4316-8d09-4da85b1dea00/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/067d21a3-77ed-4921-9f9a-23b9508451f1</a>

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MAFS.7.SP.3.7.b	Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process.	Probability of Random Events > Model Probabilities > Discover > Investigate > Investigation 2: Meteorite Warning > Check for Understanding  <a href="https://app.discoveryeducation.com/learn/player/77910b7f-e5bd-4af2-9559-ca8e9ab75b4d">https://app.discoveryeducation.com/learn/player/77910b7f-e5bd-4af2-9559-ca8e9ab75b4d</a>
MAFS.7.SP.3.7.b	Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process.	Probability of Random Events > Model Probabilities > Discover > Investigate > Investigation 3: Sources of Error  <a href="https://app.discoveryeducation.com/learn/techbook/units/3eddfb92-c8e0-4776-b831-81045ebd4f9f/concepts/22a90d5e-04e1-4316-8d09-4da85b1dea00/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ac203592-3210-49ca-84b5-c83b25312439">https://app.discoveryeducation.com/learn/techbook/units/3eddfb92-c8e0-4776-b831-81045ebd4f9f/concepts/22a90d5e-04e1-4316-8d09-4da85b1dea00/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ac203592-3210-49ca-84b5-c83b25312439</a>
MAFS.7.SP.3.8.a	Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs.	Probability of Multiple Events > Explore Compound Probabilities > Discover > Engage > Hands-On Activity: Losing your Marbles  <a href="https://app.discoveryeducation.com/learn/player/69ae508d-df46-476e-9744-2e460b9af47">https://app.discoveryeducation.com/learn/player/69ae508d-df46-476e-9744-2e460b9af47</a>
MAFS.7.SP.3.8.a	Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs.	Probability of Multiple Events > Explore Compound Probabilities > Discover > Investigate > Investigation 1: Probability of Independent Events  <a href="https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/da9248db-e46a-4e32-a251-93a3e24896fc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/91aa4dd9-98cd-42ae-9944-86215d8c857a">https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/da9248db-e46a-4e32-a251-93a3e24896fc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/91aa4dd9-98cd-42ae-9944-86215d8c857a</a>
MAFS.7.SP.3.8.a	Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs.	Probability of Multiple Events > Explore Compound Probabilities > Discover > Investigate > Investigation 2: Making a Random Playlist  <a href="https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/da9248db-e46a-4e32-a251-93a3e24896fc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/98703019-9576-4c73-b4b9-78f4b2d13ae8">https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/da9248db-e46a-4e32-a251-93a3e24896fc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/98703019-9576-4c73-b4b9-78f4b2d13ae8</a>

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MAFS.7.SP.3.8.b	Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams. For an event described in everyday language (e.g., “rolling double sixes”), identify the outcomes in the sample space which compose the event.	Probability of Multiple Events > Explore Compound Probabilities > Discover > Investigate > Investigation 2: Making a Random Playlist  <a href="https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/da9248db-e46a-4e32-a251-93a3e24896fc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/98703019-9576-4c73-b4b9-78f4b2d13ae8">https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/da9248db-e46a-4e32-a251-93a3e24896fc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/98703019-9576-4c73-b4b9-78f4b2d13ae8</a>
MAFS.7.SP.3.8.b	Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams. For an event described in everyday language (e.g., “rolling double sixes”), identify the outcomes in the sample space which compose the event.	Probability of Multiple Events > Explore Compound Probabilities > Discover > Investigate > Investigation 3: Candy Conundrum  <a href="https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/da9248db-e46a-4e32-a251-93a3e24896fc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ea5060f4-dbc8-415a-bc98-db8afa56d0de">https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/da9248db-e46a-4e32-a251-93a3e24896fc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ea5060f4-dbc8-415a-bc98-db8afa56d0de</a>
MAFS.7.SP.3.8.b	Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams. For an event described in everyday language (e.g., “rolling double sixes”), identify the outcomes in the sample space which compose the event.	Probability of Multiple Events > Determine Compound Probabilities > Discover > Investigate > Investigation 3: Choosing from a Box of Chocolates  <a href="https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/c84e2fcc-611f-4751-96c8-ddf160de9cb9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1af9210a-21f4-4508-ad8f-cde29b309887">https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/c84e2fcc-611f-4751-96c8-ddf160de9cb9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1af9210a-21f4-4508-ad8f-cde29b309887</a>
MAFS.7.SP.3.8.c	Design and use a simulation to generate frequencies for compound events.	Probability of Multiple Events > Determine Compound Probabilities > Discover > Investigate > Investigation 3: Choosing from a Box of Chocolates  <a href="https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/c84e2fcc-611f-4751-96c8-ddf160de9cb9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1af9210a-21f4-4508-ad8f-cde29b309887">https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/c84e2fcc-611f-4751-96c8-ddf160de9cb9/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1af9210a-21f4-4508-ad8f-cde29b309887</a>

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MAFS.7.SP.3.8.c	Design and use a simulation to generate frequencies for compound events.	Probability of Multiple Events > Explore Compound Probabilities > Discover > Investigate > Investigation 1: Probability of Independent Events  <a href="https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/da9248db-e46a-4e32-a251-93a3e24896fc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/91aa4dd9-98cd-42ae-9944-86215d8c857a">https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/da9248db-e46a-4e32-a251-93a3e24896fc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/91aa4dd9-98cd-42ae-9944-86215d8c857a</a>
MAFS.7.SP.3.8.c	Design and use a simulation to generate frequencies for compound events.	Probability of Multiple Events > Explore Compound Probabilities > Discover > Investigate > Investigation 2: Making a Random Playlist  <a href="https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/da9248db-e46a-4e32-a251-93a3e24896fc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/98703019-9576-4c73-b4b9-78f4b2d13ae8">https://app.discoveryeducation.com/learn/techbook/units/737f33b4-2d18-4574-8ca6-473b3c8a5458/concepts/da9248db-e46a-4e32-a251-93a3e24896fc/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/98703019-9576-4c73-b4b9-78f4b2d13ae8</a>
MAFS.8.EE.1.1	Know and apply the properties of integer exponents to generate equivalent numerical expressions.	Real Numbers > Investigate Square Roots and Cube Roots > Discover > Investigate > Investigation 2: What is perfection?  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/70aa0bcb-6c87-46e7-acbb-2919cb514e76/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c87281d0-4738-4b33-9403-1b7eee51b625">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/70aa0bcb-6c87-46e7-acbb-2919cb514e76/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c87281d0-4738-4b33-9403-1b7eee51b625</a>
MAFS.8.EE.1.1	Know and apply the properties of integer exponents to generate equivalent numerical expressions.	Exponents > Understand Rules of Exponents > Discover > Investigate > Investigation 2: What's the Pattern  <a href="https://app.discoveryeducation.com/learn/techbook/units/014e6947-c24b-4c5d-bd55-60139d53bdb0/concepts/1031e796-a180-404b-80ba-b81e4ed0778a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/13947899-7469-4c37-af0f-96c4b44b1bae">https://app.discoveryeducation.com/learn/techbook/units/014e6947-c24b-4c5d-bd55-60139d53bdb0/concepts/1031e796-a180-404b-80ba-b81e4ed0778a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/13947899-7469-4c37-af0f-96c4b44b1bae</a>

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MAFS.8.EE.1.1	Know and apply the properties of integer exponents to generate equivalent numerical expressions.	Exponents > Understand Negative Exponents > Discover > Investigate > Investigation 2: Exponent Detective  <a href="https://app.discoveryeducation.com/learn/techbook/units/014e6947-c24b-4c5d-bd55-60139d53bdb0/concepts/96477290-647b-4efa-bf23-890097cb5cf2/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2c8195cb-ce7f-4859-afc5-3927105a657a">https://app.discoveryeducation.com/learn/techbook/units/014e6947-c24b-4c5d-bd55-60139d53bdb0/concepts/96477290-647b-4efa-bf23-890097cb5cf2/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2c8195cb-ce7f-4859-afc5-3927105a657a</a>
MAFS.8.EE.1.2	Use square root and cube root symbols to represent solutions to equations of the form $\sqrt[n]{\pi} \leq = \sqrt[n]{\pm}$ and $\sqrt[n]{\pi} \geq = \sqrt[n]{\pm}$ , where $\sqrt[n]{\pm}$ is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that $\sqrt{2}$ is irrational.	Real Numbers > Compare Rational and Irrational Numbers > Discover > Investigate > Investigation 3: Zooming In > If...then...  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/615209e6-3972-4826-837c-923ee2eaf27b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c2d62833-0cd2-4f2a-8ca6-1763d760c2e7">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/615209e6-3972-4826-837c-923ee2eaf27b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c2d62833-0cd2-4f2a-8ca6-1763d760c2e7</a>
MAFS.8.EE.1.2	Use square root and cube root symbols to represent solutions to equations of the form $\sqrt[n]{\pi} \leq = \sqrt[n]{\pm}$ and $\sqrt[n]{\pi} \geq = \sqrt[n]{\pm}$ , where $\sqrt[n]{\pm}$ is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that $\sqrt{2}$ is irrational.	Real Numbers > Compare Rational and Irrational Numbers > Discover > Investigate > Investigation 1: Which One is Not Like the Others?  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/615209e6-3972-4826-837c-923ee2eaf27b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2be6e827-00fa-42c7-867b-092b960a93e8">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/615209e6-3972-4826-837c-923ee2eaf27b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2be6e827-00fa-42c7-867b-092b960a93e8</a>
MAFS.8.EE.1.3	Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other.	Scientific Notation > Represent Large and Small Numbers > Discover > Investigate > Investigation 1: Compact It!  <a href="https://app.discoveryeducation.com/learn/techbook/units/2e07479f-63e5-4f2b-a4a1-fc18d4f27875/concepts/8b97a8e7-079d-4b74-8eed-bc9e3e0d5394/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/548fdc38-cd7f-4fc3-90b1-b2d5ec1ecb0e">https://app.discoveryeducation.com/learn/techbook/units/2e07479f-63e5-4f2b-a4a1-fc18d4f27875/concepts/8b97a8e7-079d-4b74-8eed-bc9e3e0d5394/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/548fdc38-cd7f-4fc3-90b1-b2d5ec1ecb0e</a>

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MAFS.8.EE.1.3	Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other.	Scientific Notation > Represent Large and Small Numbers > Discover > Investigate > Investigation 2: Dragon Study  <a href="https://app.discoveryeducation.com/learn/techbook/units/2e07479f-63e5-4f2b-a4a1-fc18d4f27875/concepts/8b97a8e7-079d-4b74-8eed-bc9e3e0d5394/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1890d588-91e6-413e-a1b0-34cb4e4a5ac7">https://app.discoveryeducation.com/learn/techbook/units/2e07479f-63e5-4f2b-a4a1-fc18d4f27875/concepts/8b97a8e7-079d-4b74-8eed-bc9e3e0d5394/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1890d588-91e6-413e-a1b0-34cb4e4a5ac7</a>
MAFS.8.EE.1.3	Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other.	Scientific Notation > Represent Large and Small Numbers > Discover > Investigate > Investigation 3: How Do You Write That?  <a href="https://app.discoveryeducation.com/learn/techbook/units/2e07479f-63e5-4f2b-a4a1-fc18d4f27875/concepts/8b97a8e7-079d-4b74-8eed-bc9e3">https://app.discoveryeducation.com/learn/techbook/units/2e07479f-63e5-4f2b-a4a1-fc18d4f27875/concepts/8b97a8e7-079d-4b74-8eed-bc9e3</a>
MAFS.8.EE.1.4	Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology.	Scientific Notation > Perform Operations Using Scientific Notation > Discover > Investigate > Investigation 1: With a Feather on Top  <a href="https://app.discoveryeducation.com/learn/techbook/units/2e07479f-63e5-4f2b-a4a1-fc18d4f27875/concepts/92421269-31ea-42d0-b47b-578cedac070c/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8336c068-39c2-4c25-bb6f-47f90bbbb00">https://app.discoveryeducation.com/learn/techbook/units/2e07479f-63e5-4f2b-a4a1-fc18d4f27875/concepts/92421269-31ea-42d0-b47b-578cedac070c/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8336c068-39c2-4c25-bb6f-47f90bbbb00</a>
MAFS.8.EE.1.4	Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology.	Scientific Notation > Perform Operations Using Scientific Notation > Discover > Investigate > Investigation 2: Write It Right  <a href="https://app.discoveryeducation.com/learn/techbook/units/2e07479f-63e5-4f2b-a4a1-fc18d4f27875/concepts/92421269-31ea-42d0-b47b-578cedac070c/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/579af444-ae87-44a1-a130-22cda5699da5">https://app.discoveryeducation.com/learn/techbook/units/2e07479f-63e5-4f2b-a4a1-fc18d4f27875/concepts/92421269-31ea-42d0-b47b-578cedac070c/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/579af444-ae87-44a1-a130-22cda5699da5</a>

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MAFS.8.EE.1.4	Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology.	Scientific Notation > Perform Operations Using Scientific Notation > Discover > Investigate > Investigation 3: Name That Pattern > Hands-on Activity: Multiplying and Dividing with Scientific Notation  <a href="https://app.discoveryeducation.com/learn/player/104b8013-7725-45e4-ab0f-684a9fcf857d">https://app.discoveryeducation.com/learn/player/104b8013-7725-45e4-ab0f-684a9fcf857d</a>
MAFS.8.EE.1.4	Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology.	Scientific Notation > Represent Large and Small Numbers > Discover > Investigate > Extension: Convert It!  <a href="https://app.discoveryeducation.com/learn/techbook/units/2e07479f-63e5-4f2b-a4a1-fc18d4f27875/concepts/8b97a8e7-079d-4b74-8eed-bc9e3e0d5394/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/73f467e1-489d-4fd-a3cf-ffb17eae06a3">https://app.discoveryeducation.com/learn/techbook/units/2e07479f-63e5-4f2b-a4a1-fc18d4f27875/concepts/8b97a8e7-079d-4b74-8eed-bc9e3e0d5394/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/73f467e1-489d-4fd-a3cf-ffb17eae06a3</a>
MAFS.8.EE.2.5	Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways.	Introduction to Functions > Represent Proportional Relationships > Discover > Investigate > Investigation 1: Getting to School  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4b030e18-6ebd-4c2d-bf06-4c9553985bb8">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4b030e18-6ebd-4c2d-bf06-4c9553985bb8</a>
MAFS.8.EE.2.5	Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways.	Introduction to Functions > Represent Proportional Relationships > Discover > Investigate > Investigation 2: Similar Triangles and Slope  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3d591f76-a989-4fc-b3af-e959411dc3fa">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3d591f76-a989-4fc-b3af-e959411dc3fa</a>

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MAFS.8.EE.2.5	Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways.	Introduction to Functions > Represent Proportional Relationships > Discover > Investigate > Investigation 3: Rate of Change and Slope  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2485c9d5-4ca4-4b5d-a812-58d1cf3635e4">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2485c9d5-4ca4-4b5d-a812-58d1cf3635e4</a>
MAFS.8.EE.2.6	Use similar triangles to explain why the slope $m$ is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at $b$ .	Introduction to Functions > Understand Linear Functions > Discover > Investigate > Investigation 1: Graphing Toothpick Triangles  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/0b58c2c8-6f4d-4e17-84ee-beb6663441df">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/0b58c2c8-6f4d-4e17-84ee-beb6663441df</a>
MAFS.8.EE.2.6	Use similar triangles to explain why the slope $m$ is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at $b$ .	Introduction to Functions > Understand Linear Functions > Discover > Investigate > Investigation 2: Translations of $y = mx$  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3db37d23-52ca-4a25-81fb-053c6d3cd6d5">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3db37d23-52ca-4a25-81fb-053c6d3cd6d5</a>
MAFS.8.EE.2.6	Use similar triangles to explain why the slope $m$ is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at $b$ .	Introduction to Functions > Understand Linear Functions > Extension: Explore Graphs  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9ed0c9a1-e147-4dca-be86-49ed567ea265">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9ed0c9a1-e147-4dca-be86-49ed567ea265</a>

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MAFS.8.EE.3.7.a	Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $\text{True} = \text{True}$ , $\text{True} = \text{False}$ , or $\text{False} = \text{True}$ results (where $\text{True}$ and $\text{False}$ are different numbers).	Linear Relationships > Solve Linear Equations Algebraically > Investigation 1: Model it, Solve it, Build it!  <a href="https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/88d3387d-6603-4c5c-a37e-d2f4b8d56a63/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d153affd-958f-4009-bba5-33cd39bd6783">https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/88d3387d-6603-4c5c-a37e-d2f4b8d56a63/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d153affd-958f-4009-bba5-33cd39bd6783</a>
MAFS.8.EE.3.7.a	Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $\text{True} = \text{True}$ , $\text{True} = \text{False}$ , or $\text{False} = \text{True}$ results (where $\text{True}$ and $\text{False}$ are different numbers).	Linear Relationships > Solve Linear Equations Algebraically > Investigation 2: Solve Equations for a Specific Variable  <a href="https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/88d3387d-6603-4c5c-a37e-d2f4b8d56a63/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/025b76f1-e3ef-4c3d-902c-635b1ea93e0c">https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/88d3387d-6603-4c5c-a37e-d2f4b8d56a63/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/025b76f1-e3ef-4c3d-902c-635b1ea93e0c</a>
MAFS.8.EE.3.7.a	Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $\text{True} = \text{True}$ , $\text{True} = \text{False}$ , or $\text{False} = \text{True}$ results (where $\text{True}$ and $\text{False}$ are different numbers).	Linear Relationships > Solve Linear Equations Algebraically > Investigation 3: Number of Solutions  <a href="https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/88d3387d-6603-4c5c-a37e-d2f4b8d56a63/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/68a10a42-6d5c-4066-a92f-62f9206010f2">https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/88d3387d-6603-4c5c-a37e-d2f4b8d56a63/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/68a10a42-6d5c-4066-a92f-62f9206010f2</a>
MAFS.8.EE.3.7.b	Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.	Linear Relationships > Explore Linear Functions and Linear Equations > Discover > Investigate > Investigation 1: Functions and Tables  <a href="https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/f4dc58af-d865-4865-98ab-8434276d4920/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8dc358ec-41e0-4349-a822-a2b8ba316b8e">https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/f4dc58af-d865-4865-98ab-8434276d4920/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8dc358ec-41e0-4349-a822-a2b8ba316b8e</a>

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MAFS.8.EE.3.7.b	Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.	Linear Relationships > Solve Linear Equations Algebraically > Discover > Investigate > Investigation 4: Comparing Solution Methods  <a href="https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/88d3387d-6603-4c5c-a37e-d2f4b8d56a63/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4925057c-d633-4719-9c44-944c18522f47">https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/88d3387d-6603-4c5c-a37e-d2f4b8d56a63/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4925057c-d633-4719-9c44-944c18522f47</a>
MAFS.8.EE.3.7.b	Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.	Linear Relationships > Solve Linear Equations Algebraically > Investigation 2: Solving Equations for a Specific Variable  <a href="https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/88d3387d-6603-4c5c-a37e-d2f4b8d56a63/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/025b76f1-e3ef-4c3d-902c-635b1ea93e0c">https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/88d3387d-6603-4c5c-a37e-d2f4b8d56a63/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/025b76f1-e3ef-4c3d-902c-635b1ea93e0c</a>
MAFS.8.EE.3.8.a	Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.	Linear Systems > Model Situations with Multiple Equations > Discover > Investigate > Investigation 1: When Will the Runners Cross Paths? > Hands-on Activity: When Will the Runners Cross Paths?  <a href="https://app.discoveryeducation.com/learn/player/bf580a0f-bb46-4d39-9efc-b01b66f6807f">https://app.discoveryeducation.com/learn/player/bf580a0f-bb46-4d39-9efc-b01b66f6807f</a>
MAFS.8.EE.3.8.a	Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.	Linear Systems > Model Situations with Multiple Equations > Discover > Investigate > Investigation 2: The Solutions to Graphs of Systems  <a href="https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ac622a94-89e3-45bc-a553-d7f6a34c7353">https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ac622a94-89e3-45bc-a553-d7f6a34c7353</a>

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MAFS.8.EE.3.8.a	Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.	Linear Systems > Model Situations with Multiple Equations > Discover > Investigate > Investigation 3: Mixture Mysteries  <a href="https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/cc8210bb-9a3c-4b41-b053-a4bc5ad18a40">https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/cc8210bb-9a3c-4b41-b053-a4bc5ad18a40</a>
MAFS.8.EE.3.8.b	Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection.	Linear Systems > Model Situations with Multiple Equations > Discover > Investigate > Investigation 4: Substitution  <a href="https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e05e006e-f128-492c-9af1-4b960d5ba69b">https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e05e006e-f128-492c-9af1-4b960d5ba69b</a>
MAFS.8.EE.3.8.b	Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection.	Linear Systems > Model Situations with Multiple Equations > Discover > Investigate > Investigation 5: Elimination  <a href="https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/581e2ce7-2e4b-4c47-91d1-ceff13bd2a21">https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/581e2ce7-2e4b-4c47-91d1-ceff13bd2a21</a>
MAFS.8.EE.3.8.b	Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection.	Linear Systems > Model Situations with Multiple Equations > Discover > Investigate > Investigation 6: Elimination or Substitution  <a href="https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/16aa9dd6-e991-4d93-82c3-2f6f44796033">https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/16aa9dd6-e991-4d93-82c3-2f6f44796033</a>

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MAFS.8.EE.3.8.c	Solve real-world and mathematical problems leading to two linear equations in two variables.	Linear Systems > Model Situations with Multiple Equations > Apply > Apply 1: How Does the Wind Affect Flight Times?  <a href="https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/c66a2fb3-3659-4c75-90e4-8da8546c3f1d">https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/c66a2fb3-3659-4c75-90e4-8da8546c3f1d</a>
MAFS.8.EE.3.8.c	Solve real-world and mathematical problems leading to two linear equations in two variables.	Linear Systems > Model Situations with Multiple Equations > Apply > Apply 2: How Much Will Each Pet Cost?  <a href="https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/a0386d40-3c90-4f82-bb7c-e8c0afff1516">https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/a0386d40-3c90-4f82-bb7c-e8c0afff1516</a>
MAFS.8.EE.3.8.c	Solve real-world and mathematical problems leading to two linear equations in two variables.	Linear Systems > Model Situations with Multiple Equations > Discover > Investigate > Investigation 3: Mixture Mysteries  <a href="https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/cc8210bb-9a3c-4b41-b053-a4bc5ad18a40">https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/cc8210bb-9a3c-4b41-b053-a4bc5ad18a40</a>
MAFS.8.F.1.1	Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output.	Introduction to Functions > Graph, Describe, and Analyze Functions > Discover > Investigate > Investigation 4: Function Behavior  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/0218dae9-0f49-4f12-baee-2fa9bad4cf8d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7185dcd8-1e1b-455b-afcc-b3c8597729bf">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/0218dae9-0f49-4f12-baee-2fa9bad4cf8d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7185dcd8-1e1b-455b-afcc-b3c8597729bf</a>

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MAFS.8.F.1.1	Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output.	Introduction to Functions > Understand Linear Functions > Discover > Investigate > Investigation 3: Undefined Slope and Zero Slope  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2aab51d4-86ef-4b8f-a137-fc0c28a32884">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2aab51d4-86ef-4b8f-a137-fc0c28a32884</a>
MAFS.8.F.1.1	Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output.	Introduction to Functions > Investigate Properties of Functions > Discover > Investigate > Investigation 1: What is a Function?  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/7ebfe015-0ff0-4dc3-93c0-6fd551b51c60/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b301d6d1-e4e3-45e1-b205-7afcc0802b07">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/7ebfe015-0ff0-4dc3-93c0-6fd551b51c60/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b301d6d1-e4e3-45e1-b205-7afcc0802b07</a>
MAFS.8.F.1.2	Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).	Introduction to Functions > Understand Linear Functions > Discover > Investigate > Investigation 2: Translations of $y = mx$ > Comparing Scenarios  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3db37d23-52ca-4a25-81fb-053c6d3cd6d5">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3db37d23-52ca-4a25-81fb-053c6d3cd6d5</a>
MAFS.8.F.1.2	Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).	Introduction to Functions > Graph, Describe, and Analyze Functions > Discover > Investigate > Investigation 3: Compare Perimeter and Area  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/0218dae9-0f49-4f12-baee-2fa9bad4cf8d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ebba3bda-a28d-4b80-9209-8d36594f0d71">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/0218dae9-0f49-4f12-baee-2fa9bad4cf8d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ebba3bda-a28d-4b80-9209-8d36594f0d71</a>

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MAFS.8.F.1.2	Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).	Introduction to Functions > Investigate Properties of Functions > Discover > Investigate > Investigation 4: Match the Function > Hands-On Activity: Matching Functions Game  <a href="https://app.discoveryeducation.com/learn/player/bc49369d-7885-4039-99a1-60be677be2f9">https://app.discoveryeducation.com/learn/player/bc49369d-7885-4039-99a1-60be677be2f9</a>
MAFS.8.F.1.3	Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear.	Introduction to Functions > Graph, Describe, and Analyze Functions > Discover > Investigate > Investigation 3: Compare Perimeter and Area  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/0218dae9-0f49-4f12-baee-2fa9bad4cf8d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ebba3bda-a28d-4b80-9209-8d36594f0d71">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/0218dae9-0f49-4f12-baee-2fa9bad4cf8d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ebba3bda-a28d-4b80-9209-8d36594f0d71</a>
MAFS.8.F.1.3	Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear.	Introduction to Functions > Understand Linear Functions > Discover > Investigate > Investigation 2: Translations of $y = mx$ > Job Earnings with Bonus  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3db37d23-52ca-4a25-81fb-053c6d3cd6d5">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3db37d23-52ca-4a25-81fb-053c6d3cd6d5</a>
MAFS.8.F.1.3	Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear.	Introduction to Functions > Represent Proportional Relationships > Discover > Investigate > Extension  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ddffb48c-79a0-414c-9bda-0271b1823864">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/ddffb48c-79a0-414c-9bda-0271b1823864</a>

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MAFS.8.F.2.4	Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two ( $\text{àùòπ}, \text{àùòʃ}$ ) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.	Introduction to Functions > Understand Linear Functions > Discover > Investigate > Investigation 4: Linear Functions  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d5b9201b-d268-4122-adda-a56221e20fb6">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d5b9201b-d268-4122-adda-a56221e20fb6</a>
MAFS.8.F.2.4	Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two ( $\text{àùòπ}, \text{àùòʃ}$ ) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.	Linear Relationships > Explore Linear Functions and Linear Equations > Apply > Apply 1: How Can You Use the Length of a Humerus to Approximate Height?  <a href="https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/f4dc58af-d865-4865-98ab-8434276d4920/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/63516c3d-8e69-43b9-b8d5-d99667e7c988">https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/f4dc58af-d865-4865-98ab-8434276d4920/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/63516c3d-8e69-43b9-b8d5-d99667e7c988</a>
MAFS.8.F.2.4	Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two ( $\text{àùòπ}, \text{àùòʃ}$ ) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.	Introduction to Functions > Represent Proportional Relationships > Discover > Investigate > Investigation 1: Getting to School  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4b030e18-6ebd-4c2d-bf06-4c9553985bb8">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4b030e18-6ebd-4c2d-bf06-4c9553985bb8</a>

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MAFS.8.F.2.4	Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two ( $\begin{pmatrix} x \\ y \end{pmatrix}$ , $\begin{pmatrix} x' \\ y' \end{pmatrix}$ ) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.	Introduction to Functions > Investigate Properties of Functions > Discover > Investigate > Investigation 2: It's Functional > Hands-on Activity: It's Functional  <a href="https://app.discoveryeducation.com/learn/player/b0ccba94-da86-4798-ad25-ff117306878d">https://app.discoveryeducation.com/learn/player/b0ccba94-da86-4798-ad25-ff117306878d</a>
MAFS.8.F.2.5	Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.	Introduction to Functions > Understand Linear Functions > Apply > Apply 3: How Can You Model Real-World Functions?  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/cebae879-6397-4711-8011-c69d4bd8f195">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/cebae879-6397-4711-8011-c69d4bd8f195</a>
MAFS.8.F.2.5	Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.	Introduction to Functions > Graph, Describe, and Analyze Functions > Discover > Investigate > Investigation 4: Function Behavior > Part 2  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/0218dae9-0f49-4f12-baee-2fa9bad4cf8d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7185dc8-1e1b-455b-afcc-b3c8597729bf">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/0218dae9-0f49-4f12-baee-2fa9bad4cf8d/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/7185dc8-1e1b-455b-afcc-b3c8597729bf</a>
MAFS.8.F.2.5	Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.	Introduction to Functions > Investigate Properties of Functions > Discover > Investigate > Investigation 4: Match the Function > Hands-On Activity: Matching Functions Game  <a href="https://app.discoveryeducation.com/learn/player/bc49369d-7885-4039-99a1-60be677be2f9">https://app.discoveryeducation.com/learn/player/bc49369d-7885-4039-99a1-60be677be2f9</a>

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MAFS.8.F.2.5	Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.	Linear Relationships > Explore Linear Functions and Linear Equations > Apply > Apply 3: How Can You Make Plans for a Gigantic Work of Art? > Analyze a Graph  <a href="https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/f4dc58af-d865-4865-98ab-8434276d4920/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/bdd3edae-c743-4129-bcdcd-021ca0cd70c4">https://app.discoveryeducation.com/learn/techbook/units/9103230a-7c77-46f7-9886-e76fdb31dee0/concepts/f4dc58af-d865-4865-98ab-8434276d4920/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/bdd3edae-c743-4129-bcdcd-021ca0cd70c4</a>
MAFS.8.G.1.1.a	Lines are taken to lines, and line segments to line segments of the same length.	Congruence and Similarity > Investigate Geometric Transformations > Discover > Investigate > Investigation 2: Action Figures > Transforming a Line Segment  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e6ce97a5-3790-4781-a0d4-7d24eff3d7a4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b018f3d1-8ba4-4aab-b434-34e2f6039feb">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e6ce97a5-3790-4781-a0d4-7d24eff3d7a4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b018f3d1-8ba4-4aab-b434-34e2f6039feb</a>
MAFS.8.G.1.1.a	Lines are taken to lines, and line segments to line segments of the same length.	Congruence and Similarity > Perform Multiple Transformations > Discover > Investigate > Investigation 1: Multiple Transformations > Analyze Transformations  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a004bf0c-37c9-4367-9724-7525df756d31">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a004bf0c-37c9-4367-9724-7525df756d31</a>
MAFS.8.G.1.1.a	Lines are taken to lines, and line segments to line segments of the same length.	Intersecting Lines and Angles > Investigate Parallel and Intersecting Lines > Discover > Investigate > Investigation 3: Lines Angles and Triangles  <a href="https://app.discoveryeducation.com/learn/techbook/units/178d1a83-54e0-4c10-8ceb-03a0f80c75aa/concepts/9a45e54c-fbde-4976-b86a-71ee58c86afb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/78cdb766-16da-4617-9561-b4a62dd9f856">https://app.discoveryeducation.com/learn/techbook/units/178d1a83-54e0-4c10-8ceb-03a0f80c75aa/concepts/9a45e54c-fbde-4976-b86a-71ee58c86afb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/78cdb766-16da-4617-9561-b4a62dd9f856</a>

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MAFS.8.G.1.1.b	Angles are taken to angles of the same measure.	Congruence and Similarity > Investigate Geometric Transformations > Discover > Investigate > Investigation 1: Triangle Patterns > Hands-on Activity: Triangle Patterns  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e6ce97a5-3790-4781-a0d4-7d24eff3d7a4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9c8f2866-c2ae-459b-b577-1312d93c6ae9">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e6ce97a5-3790-4781-a0d4-7d24eff3d7a4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9c8f2866-c2ae-459b-b577-1312d93c6ae9</a>
MAFS.8.G.1.1.b	Angles are taken to angles of the same measure.	Congruence and Similarity > Perform Multiple Transformations > Discover > Investigate > Investigation 1: Multiple Transformations > Analyze Transformations  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a004bfco-37c9-4367-9724-7525df756d31">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a004bfco-37c9-4367-9724-7525df756d31</a>
MAFS.8.G.1.1.b	Angles are taken to angles of the same measure.	Intersecting Lines and Angles > Investigate Parallel and Intersecting Lines > Discover > Investigate > Investigation 3: Lines Angles and Triangles  <a href="https://app.discoveryeducation.com/learn/techbook/units/178d1a83-54e0-4c10-8ceb-03a0f80c75aa/concepts/9a45e54c-fbde-4976-b86a-71ee58c86afb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/78cdb766-16da-4617-9561-b4a62dd9f856">https://app.discoveryeducation.com/learn/techbook/units/178d1a83-54e0-4c10-8ceb-03a0f80c75aa/concepts/9a45e54c-fbde-4976-b86a-71ee58c86afb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/78cdb766-16da-4617-9561-b4a62dd9f856</a>
MAFS.8.G.1.1.c	Parallel lines are taken to parallel lines.	Congruence and Similarity > Investigate Geometric Transformations > Discover > Investigate > Investigation 3: Action Figures in the Coordinate Plane > translating Two-dimensional Figures in the Coordinate Plane  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e6ce97a5-3790-4781-a0d4-7d24eff3d7a4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b7336a5e-cfd4-495c-ae2c-cb34bcf2c119">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e6ce97a5-3790-4781-a0d4-7d24eff3d7a4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b7336a5e-cfd4-495c-ae2c-cb34bcf2c119</a>

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MAFS.8.G.1.1.c	Parallel lines are taken to parallel lines.	Congruence and Similarity > Perform Multiple Transformations > Discover > Investigate > Investigation 1: Multiple Transformations > Reflect and Translate a Quadrilateral  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a004bfc0-37c9-4367-9724-7525df756d31">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a004bfc0-37c9-4367-9724-7525df756d31</a>
MAFS.8.G.1.1.c	Parallel lines are taken to parallel lines.	Congruence and Similarity > Perform Multiple Transformations > Discover > Investigate > Investigation 2: Matching Figures  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d6f28654-31e7-42ad-87d3-b4f853df67cf">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d6f28654-31e7-42ad-87d3-b4f853df67cf</a>
MAFS.8.G.1.2	Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.	Congruence and Similarity > Perform Multiple Transformations > Discover > Investigate > Investigation 1: Multiple Transformations > Analyze Multiple Transformations  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a004bfc0-37c9-4367-9724-7525df756d31">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/a004bfc0-37c9-4367-9724-7525df756d31</a>
MAFS.8.G.1.2	Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.	Congruence and Similarity > Perform Multiple Transformations > Discover > Investigate > Investigation 3: Matching Figures on the Coordinate Plane > Describe Multiple Transformations Across the x-axis and y-axis  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e2d84ec7-25fb-43ef-9878-1ad28349a18d">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e2d84ec7-25fb-43ef-9878-1ad28349a18d</a>

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MAFS.8.G.1.2	Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.	Congruence and Similarity > Perform Multiple Transformations > Discover > Investigate > Investigation 2: Matching Figures  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d6f28654-31e7-42ad-87d3-b4f853df67cf">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d6f28654-31e7-42ad-87d3-b4f853df67cf</a>
MAFS.8.G.1.3	Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.	Introduction to Functions > Understand Linear Functions > Discover > Investigate > Investigation 2: Translations of $y = mx$  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3db37d23-52ca-4a25-81fb-053c6d3cd6d5">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/1353d0c0-4593-4166-92d0-bf5789685d58/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3db37d23-52ca-4a25-81fb-053c6d3cd6d5</a>
MAFS.8.G.1.3	Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.	Congruence and Similarity > Perform Multiple Transformations > Discover > Investigate > Investigation 3: Matching Figures on the Coordinate Plane > Describe Multiple Transformations In the Coordinate Plane  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e2d84ec7-25fb-43ef-9878-1ad28349a18d">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e78f761c-01f1-4e90-8f01-96d31975a846/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e2d84ec7-25fb-43ef-9878-1ad28349a18d</a>
MAFS.8.G.1.3	Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.	Congruence and Similarity > Investigate Geometric Transformations > Discover > Investigate > Investigation 3: Action Figures in the Coordinate Plane > Translating Two-dimensional Figures in the Coordinate Plane  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e6ce97a5-3790-4781-a0d4-7d24eff3d7a4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b7336a5e-cfd4-495c-ae2c-cb34bcf2c119">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/e6ce97a5-3790-4781-a0d4-7d24eff3d7a4/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b7336a5e-cfd4-495c-ae2c-cb34bcf2c119</a>

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MAFS.8.G.1.3	Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.	Congruence and Similarity > Represent Similarity with Proportions > Apply > Apply 2: How Would You Make a Stencil Pattern  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/3dda662e-fb4f-4fe0-b011-11ef7c39257a/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/e97763a5-0103-47ef-acbd-47f82d0bf284">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/3dda662e-fb4f-4fe0-b011-11ef7c39257a/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/e97763a5-0103-47ef-acbd-47f82d0bf284</a>
MAFS.8.G.1.4	Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them.	Congruence and Similarity > Represent Similarity with Proportions > Discover > Investigate > Investigation 1: Sizing It Up (or Down) > Hand-On Activity: Exploring Dilations  <a href="https://app.discoveryeducation.com/learn/player/a949b16c-0d97-4e4a-85d4-d05a2985c431">https://app.discoveryeducation.com/learn/player/a949b16c-0d97-4e4a-85d4-d05a2985c431</a>
MAFS.8.G.1.4	Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them.	Congruence and Similarity > Represent Similarity with Proportions > Discover > Investigate > Investigation 2: All the Right Moves > Transform a Polygon  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/3dda662e-fb4f-4fe0-b011-11ef7c39257a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/eeb1131d-97cd-4e70-8e34-19aa3613a697">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/3dda662e-fb4f-4fe0-b011-11ef7c39257a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/eeb1131d-97cd-4e70-8e34-19aa3613a697</a>
MAFS.8.G.1.4	Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them.	Congruence and Similarity > Represent Similarity with Proportions > Apply > Apply 1: Where Do You See Transformations in Art?  <a href="https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/3dda662e-fb4f-4fe0-b011-11ef7c39257a/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/c6fa7d54-084f-4d57-ba1b-b3c842f937ec">https://app.discoveryeducation.com/learn/techbook/units/9ea0d93a-3a1c-494b-9626-f1170be6310c/concepts/3dda662e-fb4f-4fe0-b011-11ef7c39257a/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/c6fa7d54-084f-4d57-ba1b-b3c842f937ec</a>

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MAFS.8.G.1.5	Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.	Congruence and Similarity > Represent Similarity with Proportions > Discover > Investigate > Investigation 3: Similar Triangles > Hands-On Activity: Similar Triangles  <a href="https://app.discoveryeducation.com/learn/player/596c1a1b-23a2-4428-a59d-789b9b1561b7">https://app.discoveryeducation.com/learn/player/596c1a1b-23a2-4428-a59d-789b9b1561b7</a>
MAFS.8.G.1.5	Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.	The Pythagorean Theorem > Investigate the Pythagorean Theorem Converse > Discover > Investigate > Investigation 1: Is the Rocket Perpendicular?  <a href="https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/19e354eb-c517-4794-ade4-b07233107a6b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c71bbea6-ae0a-4e16-8e81-be3b03a3d29c">https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/19e354eb-c517-4794-ade4-b07233107a6b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c71bbea6-ae0a-4e16-8e81-be3b03a3d29c</a>
MAFS.8.G.1.5	Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.	Intersecting Lines and Angles > Understand Interior and Exterior Angles > Discover > Investigate > Investigation 2: Exploring the Exterior > Hands-On Activity: Exploring the Exterior  <a href="https://app.discoveryeducation.com/learn/player/0f6ecbbc-dacb-4737-9599-cc7735dd0f80">https://app.discoveryeducation.com/learn/player/0f6ecbbc-dacb-4737-9599-cc7735dd0f80</a>
MAFS.8.G.1.5	Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.	Intersecting Lines and Angles > Investigate Parallel and Intersecting Lines > Discover > Investigate > Investigation 1: Transversal and Parallel Lines  <a href="https://app.discoveryeducation.com/learn/techbook/units/178d1a83-54e0-4c10-8ceb-03a0f80c75aa/concepts/9a45e54c-fbde-4976-b86a-71ee58c86afb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8b2a40f6-b2c4-48d6-83af-e7733b288fa7">https://app.discoveryeducation.com/learn/techbook/units/178d1a83-54e0-4c10-8ceb-03a0f80c75aa/concepts/9a45e54c-fbde-4976-b86a-71ee58c86afb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/8b2a40f6-b2c4-48d6-83af-e7733b288fa7</a>

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MAFS.8.G.2.6	Explain a proof of the Pythagorean Theorem and its converse.	The Pythagorean Theorem > Investigate the Pythagorean Theorem > Discover > Investigate > Investigation 2: Conduct and Experiment > Interactive: Squares on a Triangle  <a href="https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/c93bbe5b-6081-487a-942b-13c141581da6/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b191e128-3614-4ff7-b055-dcdefdbd71bd">https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/c93bbe5b-6081-487a-942b-13c141581da6/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b191e128-3614-4ff7-b055-dcdefdbd71bd</a>
MAFS.8.G.2.6	Explain a proof of the Pythagorean Theorem and its converse.	The Pythagorean Theorem > Investigate the Pythagorean Theorem > Discover > Investigate > Investigation 3: Examine a Proof of the Pythagorean Theorem  <a href="https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/c93bbe5b-6081-487a-942b-13c141581da6/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d9515e43-93d4-4820-b9bc-6e6cbcc52c5f">https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/c93bbe5b-6081-487a-942b-13c141581da6/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d9515e43-93d4-4820-b9bc-6e6cbcc52c5f</a>
MAFS.8.G.2.6	Explain a proof of the Pythagorean Theorem and its converse.	The Pythagorean Theorem > Investigate the Pythagorean Theorem Converse > Discover > Investigate > Investigation 3: Informal Proofs  <a href="https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/19e354eb-c517-4794-ade4-b07233107a6b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9e99c917-dc4d-4021-aaea-717c609c2c8b">https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/19e354eb-c517-4794-ade4-b07233107a6b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9e99c917-dc4d-4021-aaea-717c609c2c8b</a>
MAFS.8.G.2.7	Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.	The Pythagorean Theorem > Investigate the Pythagorean Theorem > Discover > Investigate > Investigation 4: How Is the Pythagorean Theorem Used to Solve Problems?  <a href="https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/c93bbe5b-6081-487a-942b-13c141581da6/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6fbdc7a7-d995-4eb1-8d4e-0bee2b84fcba">https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/c93bbe5b-6081-487a-942b-13c141581da6/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/6fbdc7a7-d995-4eb1-8d4e-0bee2b84fcba</a>

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MAFS.8.G.2.7	Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.	The Pythagorean Theorem > Use the Pythagorean Theorem in 2-D and 3-D > Discover > Investigate > Investigation 3: Fitting a Tripod into a Box  <a href="https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/1828e238-33b5-4647-a7f2-6747e8c6e549/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9e5e1fef-0c93-4543-9e91-7416ad57cfdd">https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/1828e238-33b5-4647-a7f2-6747e8c6e549/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9e5e1fef-0c93-4543-9e91-7416ad57cfdd</a>
MAFS.8.G.2.7	Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.	The Pythagorean Theorem > Investigate the Pythagorean Theorem > Apply > Apply 1: What Are the Dimensions of a Flat-Screen TV?  <a href="https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/c93bbe5b-6081-487a-942b-13c141581da6/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/2925e6ba-e3e9-476c-8eec-19a6ef28ff43">https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/c93bbe5b-6081-487a-942b-13c141581da6/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/2925e6ba-e3e9-476c-8eec-19a6ef28ff43</a>
MAFS.8.G.2.8	Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.	The Pythagorean Theorem > Use the Pythagorean Theorem in 2-D and 3-D > Discover > Investigate > Investigation 1: Finding a Route for the Courier  <a href="https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/1828e238-33b5-4647-a7f2-6747e8c6e549/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3b2b5a68-ec5c-4557-b583-dd3ced98f70c">https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/1828e238-33b5-4647-a7f2-6747e8c6e549/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3b2b5a68-ec5c-4557-b583-dd3ced98f70c</a>
MAFS.8.G.2.8	Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.	The Pythagorean Theorem > Use the Pythagorean Theorem in 2-D and 3-D > Discover > Investigate > Investigation 2: Anandi's Method  <a href="https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/1828e238-33b5-4647-a7f2-6747e8c6e549/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/cf3763f8-55cb-4008-b1d1-bbcf7521a035">https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/1828e238-33b5-4647-a7f2-6747e8c6e549/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/cf3763f8-55cb-4008-b1d1-bbcf7521a035</a>

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MAFS.8.G.2.8	Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.	The Pythagorean Theorem > Use the Pythagorean Theorem in 2-D and 3-D > Apply > Apply 1: What is the Shortest Path on the Map?  <a href="https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/1828e238-33b5-4647-a7f2-6747e8c6e549/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/ae00e236-456b-47ff-a7c6-ae389672cd42">https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/1828e238-33b5-4647-a7f2-6747e8c6e549/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/ae00e236-456b-47ff-a7c6-ae389672cd42</a>
MAFS.8.G.3.9	Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.	Volume of Solid Figures > Investigate Volume Formulas > Discover > Investigate > Investigation 2: Volume of Cylinders and Cones > Hands-on Activity: Prisms and Cylinders >  <a href="https://app.discoveryeducation.com/learn/player/812c2901-a9ce-4342-b28d-1759a3053df5">https://app.discoveryeducation.com/learn/player/812c2901-a9ce-4342-b28d-1759a3053df5</a>
MAFS.8.G.3.9	Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.	Volume of Solid Figures > Investigate Volume Formulas > Discover > Investigate > Investigation 3: Volume of a Sphere  <a href="https://app.discoveryeducation.com/learn/techbook/units/9b962216-ccf7-4e86-813b-90d8042fff94/concepts/c7f089f3-4afe-44cc-9230-b43aac565ab7/tabs/19155618-5d23-4aa5-a4e5-017f73dab9a/pages/3b77469f-6dbe-45bb-afbd-c3e318533cf9">https://app.discoveryeducation.com/learn/techbook/units/9b962216-ccf7-4e86-813b-90d8042fff94/concepts/c7f089f3-4afe-44cc-9230-b43aac565ab7/tabs/19155618-5d23-4aa5-a4e5-017f73dab9a/pages/3b77469f-6dbe-45bb-afbd-c3e318533cf9</a>
MAFS.8.G.3.9	Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.	Volume of Solid Figures > Investigate Volume Formulas > Apply > Apply 2: How Can You Turn a Cube into a Cylinder, a Cone, and a Sphere?  <a href="https://app.discoveryeducation.com/learn/techbook/units/9b962216-ccf7-4e86-813b-90d8042fff94/concepts/c7f089f3-4afe-44cc-9230-b43aac565ab7/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/0e527ca1-16f5-4f9b-a3f2-bfe634419a99">https://app.discoveryeducation.com/learn/techbook/units/9b962216-ccf7-4e86-813b-90d8042fff94/concepts/c7f089f3-4afe-44cc-9230-b43aac565ab7/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/0e527ca1-16f5-4f9b-a3f2-bfe634419a99</a>

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MAFS.8.NS.1.1	Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.	Real Numbers > Convert between Decimals and Fractions > Discover > Investigate > Investigation 1: Shape Shifting Part 1: Fractions to Decimals > Hands-on Activity: Using a Spreadsheet  <a href="https://app.discoveryeducation.com/learn/player/cddb792c-eb83-4c08-b9b3-fdd3688df27c">https://app.discoveryeducation.com/learn/player/cddb792c-eb83-4c08-b9b3-fdd3688df27c</a>
MAFS.8.NS.1.1	Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.	Real Numbers > Convert between Decimals and Fractions > Discover > Investigate > Investigation 2: Shape Shifting Part 2: Decimals to Fractions  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/2939c6b8-238d-416a-86a4-3741c61b01ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/412d62d1-81ec-4626-9af3-f13bdb0f5b9b">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/2939c6b8-238d-416a-86a4-3741c61b01ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/412d62d1-81ec-4626-9af3-f13bdb0f5b9b</a>
MAFS.8.NS.1.1	Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.	Real Numbers > Compare Rational and Irrational Numbers > Discover > Investigate > Investigation 1: Which One is Not Like the Others?  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/615209e6-3972-4826-837c-923ee2eaf27b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2be6e827-00fa-42c7-867b-092b960a93e8">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/615209e6-3972-4826-837c-923ee2eaf27b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2be6e827-00fa-42c7-867b-092b960a93e8</a>
MAFS.8.NS.1.2	Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., $\sqrt{2}$ ).	Real Numbers > Compare Rational and Irrational Numbers > Discover > Investigate > Investigation 3: Zooming In  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/615209e6-3972-4826-837c-923ee2eaf27b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c2d62833-0cd2-4f2a-8ca6-1763d760c2e7">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/615209e6-3972-4826-837c-923ee2eaf27b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c2d62833-0cd2-4f2a-8ca6-1763d760c2e7</a>

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MAFS.8.NS.1.2	Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., $\sqrt{2}$ ).	Real Numbers > Compare Rational and Irrational Numbers > Discover > Investigate > Investigation 2: Squaring Up > Interactive: Tiling a Shower  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/615209e6-3972-4826-837c-923ee2eaf27b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d275430b-6e01-43d5-91b2-fc49e5b1cb75">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/615209e6-3972-4826-837c-923ee2eaf27b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/d275430b-6e01-43d5-91b2-fc49e5b1cb75</a>
MAFS.8.NS.1.2	Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., $\sqrt{2}$ ).	Real Numbers > Compare Rational and Irrational Numbers > Discover > Investigate > Investigation 3: Zooming In > Hands-On Activity: Sliding Number Lines  <a href="https://app.discoveryeducation.com/learn/player/2cef748-3b1b-42bf-8bb1-187bb4993010">https://app.discoveryeducation.com/learn/player/2cef748-3b1b-42bf-8bb1-187bb4993010</a>
MAFS.8.SP.1.1	Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association.	Bivariate Data > Create and Analyze Scatter Plots > Discover > Investigate > Investigation 2: Scattered > Which are Outliers?  <a href="https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9dd2081a-8d2c-425e-9b7f-83f390acbbf7">https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9dd2081a-8d2c-425e-9b7f-83f390acbbf7</a>
MAFS.8.SP.1.1	Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association.	Bivariate Data > Create and Analyze Scatter Plots > Discover > Investigate > Investigation 2: Scattered > Data Associations  <a href="https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9dd2081a-8d2c-425e-9b7f-83f390acbbf7">https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9dd2081a-8d2c-425e-9b7f-83f390acbbf7</a>

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MAFS.8.SP.1.1	Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association.	Bivariate Data > Create and Analyze Scatter Plots > Discover > Investigate > Investigation 1: Scatter Plots Revealed  <a href="https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/73f62ac8-5df2-41bd-bab6-318bbbe69cb6">https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/73f62ac8-5df2-41bd-bab6-318bbbe69cb6</a>
MAFS.8.SP.1.2	Know that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line.	Bivariate Data > Generate Lines of Best Fit > Discover > Investigate > Investigation 2: Which Fits Best? > Hands- On Activity: Which Fits Best  <a href="https://app.discoveryeducation.com/learn/player/4ad1abbc-8e6c-4a3b-a211-358f522b8378">https://app.discoveryeducation.com/learn/player/4ad1abbc-8e6c-4a3b-a211-358f522b8378</a>
MAFS.8.SP.1.2	Know that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line.	Bivariate Data > Generate Lines of Best Fit > Discover > Investigate > Investigation 3: Go to the Line > Hands- On Activity: Go to the Line  <a href="https://app.discoveryeducation.com/learn/player/90a3f1f4-0f7b-4f80-9063-caa54ce9f411">https://app.discoveryeducation.com/learn/player/90a3f1f4-0f7b-4f80-9063-caa54ce9f411</a>
MAFS.8.SP.1.2	Know that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line.	Bivariate Data > Create and Analyze Scatter Plots > Discover > Investigate > Investigation 2: Scattered > Data Associations  <a href="https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9dd2081a-8d2c-425e-9b7f-83f390acbbf7">https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/9dd2081a-8d2c-425e-9b7f-83f390acbbf7</a>

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MAFS.8.SP.1.3	Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept.	Bivariate Data > Generate Lines of Best Fit > Apply > Apply 1: What Relationships Exist Between Calories, Fat, Cholesterol, Salt, and Other Nutrients?  <a href="https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/25d243e0-b7e1-455b-884d-6110d359b00e/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/8f2caf1b-14ad-4f47-b7f4-f3bef16052dc">https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/25d243e0-b7e1-455b-884d-6110d359b00e/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/8f2caf1b-14ad-4f47-b7f4-f3bef16052dc</a>
MAFS.8.SP.1.3	Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept.	Bivariate Data > Generate Lines of Best Fit > Discover > Investigate > Investigation 4: Predictions About the Wave > Write an Equation > Interpret the Slope and y-intercept  <a href="https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/25d243e0-b7e1-455b-884d-6110d359b00e/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1c9d1dd0-c316-4e72-a337-ca29e39e8785">https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/25d243e0-b7e1-455b-884d-6110d359b00e/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1c9d1dd0-c316-4e72-a337-ca29e39e8785</a>
MAFS.8.SP.1.3	Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept.	Bivariate Data > Create and Analyze Scatter Plots > Discover > Investigate > Investigation 3: Analyzing Scatter Plots > Make a Conjecture  <a href="https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1670a120-382d-46d6-8a02-e945833ecad9">https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1670a120-382d-46d6-8a02-e945833ecad9</a>
MAFS.8.SP.1.4	Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables.	Bivariate Data > Create and Analyze Two-Way Tables > Apply > Apply 1: Are the Books and Movies That People Like Related?  <a href="https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/c59fdefa-441a-4efb-9949-08af3d9c483a/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/2881f053-b1cf-4f6e-b8e1-0bef929865bf">https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/c59fdefa-441a-4efb-9949-08af3d9c483a/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/2881f053-b1cf-4f6e-b8e1-0bef929865bf</a>

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MAFS.8.SP.1.4	Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables.	Bivariate Data > Create and Analyze Two-Way Tables > Discover > Investigate > Investigation 1: Let's Table It!  <a href="https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/c59fdefa-441a-4efb-9949-08af3d9c483a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1a32d67a-5eaf-4a34-8c3d-195fc584f4b4">https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/c59fdefa-441a-4efb-9949-08af3d9c483a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1a32d67a-5eaf-4a34-8c3d-195fc584f4b4</a>
MAFS.8.SP.1.4	Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables.	Bivariate Data > Create and Analyze Scatter Plots > Discover > Investigate > Investigation 1: Scatter Plots Revealed > Gather Data  <a href="https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/73f62ac8-5df2-41bd-bab6-318bbbe69cb6">https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/73f62ac8-5df2-41bd-bab6-318bbbe69cb6</a>
MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Real Numbers > Investigate Square Roots and Cube Roots > Discover > Investigate > Investigation 3: Pinpoint those Numbers > Plot Square Roots, Plot Cube Roots  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/70aa0bcb-6c87-46e7-acbb-2919cb514e76/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/866384b6-839d-4041-9850-79b3d750aad7">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/70aa0bcb-6c87-46e7-acbb-2919cb514e76/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/866384b6-839d-4041-9850-79b3d750aad7</a>
MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Volume of Solid Figures > Investigate Volume Formulas > Discover > Investigate > Investigation 3: Volume of a Sphere  <a href="https://app.discoveryeducation.com/learn/techbook/units/9b962216-ccf7-4e86-813b-90d8042fff94/concepts/c7f089f3-4afe-44cc-9230-b43aac565ab7/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3b77469f-6dbe-45bb-afbd-c3e318533cf9">https://app.discoveryeducation.com/learn/techbook/units/9b962216-ccf7-4e86-813b-90d8042fff94/concepts/c7f089f3-4afe-44cc-9230-b43aac565ab7/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3b77469f-6dbe-45bb-afbd-c3e318533cf9</a>

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MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Exponents > Understand Rules of Exponents > Discover > Investigate > Investigation 1: Exponent Cards > Equivalent Expressions 1 and 2  <a href="https://app.discoveryeducation.com/learn/techbook/units/014e6947-c24b-4c5d-bd55-60139d53bdb0/concepts/1031e796-a180-404b-80ba-b81e4ed0778a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/bafbbfe1-730c-487e-8968-85c9be284f9a">https://app.discoveryeducation.com/learn/techbook/units/014e6947-c24b-4c5d-bd55-60139d53bdb0/concepts/1031e796-a180-404b-80ba-b81e4ed0778a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/bafbbfe1-730c-487e-8968-85c9be284f9a</a>
MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Linear Systems > Model Situations with Multiple Equations > Discover > Investigate > Investigation 3: Mixture Mysteries > Tales from the Tables  <a href="https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/cc8210bb-9a3c-4b41-b053-a4bc5ad18a40">https://app.discoveryeducation.com/learn/techbook/units/27a72144-8781-4826-9df8-1f2a1a469105/concepts/d701728c-7ce7-4640-a1a9-22d8ed8253ef/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/cc8210bb-9a3c-4b41-b053-a4bc5ad18a40</a>
MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Introduction to Functions > Represent Proportional Relationships > Discover > Investigate > Investigation 1: Getting to School  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4b030e18-6ebd-4c2d-bf06-4c9553985bb8">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4b030e18-6ebd-4c2d-bf06-4c9553985bb8</a>
MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Bivariate Data > Create and Analyze Two-Way Tables > Apply > Apply 1: Are the Books and Movies That People Like Related?  <a href="https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/c59fdefa-441a-4efb-9949-08af3d9c483a/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/2881f053-b1cf-4f6e-b8e1-0bef929865bf">https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/c59fdefa-441a-4efb-9949-08af3d9c483a/tabs/6dc41756-43ff-4f63-bd11-3148dd938983/pages/2881f053-b1cf-4f6e-b8e1-0bef929865bf</a>

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MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Introduction to Functions > Represent Proportional Relationships > Discover > Investigate > Investigation 1: Getting to School  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4b030e18-6ebd-4c2d-bf06-4c9553985bb8">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/4b030e18-6ebd-4c2d-bf06-4c9553985bb8</a>
MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Bivariate Data > Create and Analyze Scatter Plots > Discover > Investigate > Investigation 1: Scatter Plots Revealed > Draw a Conclusion  <a href="https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/73f62ac8-5df2-41bd-bab6-318bbbe69cb6">https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/73f62ac8-5df2-41bd-bab6-318bbbe69cb6</a>
MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Bivariate Data > Create and Analyze Scatter Plots > Discover > Investigate > Investigation 3: Analyzing Scatter Plots > Make a Conjecture  <a href="https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1670a120-382d-46d6-8a02-e945833ecad9">https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1670a120-382d-46d6-8a02-e945833ecad9</a>
MAFS.K12.MP.4.1	Model with mathematics.	Real Numbers > Compare Rational and Irrational Numbers > Discover > Investigate > Investigation 3: Zooming In  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/615209e6-3972-4826-837c-923ee2eaf27b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c2d62833-0cd2-4f2a-8ca6-1763d760c2e7">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/615209e6-3972-4826-837c-923ee2eaf27b/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/c2d62833-0cd2-4f2a-8ca6-1763d760c2e7</a>

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MAFS.K12.MP.4.1	Model with mathematics.	Intersecting Lines and Angles > Investigate Parallel and Intersecting Lines > Discover > Investigate > Investigation 3: Lines, Angles, and Triangles > Hands-On Activity: Chees Sandwiches  <a href="https://app.discoveryeducation.com/learn/player/f047e603-eb7d-4993-9ba0-cd4851d2b952">https://app.discoveryeducation.com/learn/player/f047e603-eb7d-4993-9ba0-cd4851d2b952</a>
MAFS.K12.MP.4.1	Model with mathematics.	The Pythagorean Theorem > Investigate the Pythagorean Theorem > Discover > Investigate > Investigation 2: Conduct an Experiment > Interactive: Squares on a Triangle  <a href="https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/c93bbe5b-6081-487a-942b-13c141581da6/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b191e128-3614-4ff7-b055-dcdefdbd71bd">https://app.discoveryeducation.com/learn/techbook/units/26800a8c-8a69-4adf-8fee-a22e9326c226/concepts/c93bbe5b-6081-487a-942b-13c141581da6/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/b191e128-3614-4ff7-b055-dcdefdbd71bd</a>
MAFS.K12.MP.5.1	Use appropriate tools strategically.	Real Numbers > Investigate Square Roots and Cube Roots > Discover > Investigate > Investigation 1: Something Radical < use of Calculator  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/70aa0bcb-6c87-46e7-acbb-2919cb514e76/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e2c691be-332d-41f5-a68f-4c0a0af4d14b">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/70aa0bcb-6c87-46e7-acbb-2919cb514e76/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e2c691be-332d-41f5-a68f-4c0a0af4d14b</a>
MAFS.K12.MP.5.1	Use appropriate tools strategically.	Real Numbers > Investigate Square Roots and Cube Roots > Discover > Investigate > Investigation 3: Pinpoint those Numbers > use of calculator  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/70aa0bcb-6c87-46e7-acbb-2919cb514e76/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/866384b6-839d-4041-9850-79b3d750aad7">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/70aa0bcb-6c87-46e7-acbb-2919cb514e76/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/866384b6-839d-4041-9850-79b3d750aad7</a>

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MAFS.K12.MP.5.1	Use appropriate tools strategically.	Intersecting Lines and Angles > Investigate Parallel and Intersecting Lines > Discover > Investigate > Investigation 1: Transversals and Parallel Lines > Hands-On Activity: Patty Paper  <a href="https://app.discoveryeducation.com/learn/player/767da0fa-fb68-41e3-8d23-5bd34e2d5343">https://app.discoveryeducation.com/learn/player/767da0fa-fb68-41e3-8d23-5bd34e2d5343</a>
MAFS.K12.MP.6.1	Attend to precision.	Introduction to Functions > Represent Proportional Relationships > Discover > Investigate > Investigation 2: Similar Triangles and Slope  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3d591f76-a989-4fcf-b3af-e959411dc3fa">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/3d591f76-a989-4fcf-b3af-e959411dc3fa</a>
MAFS.K12.MP.6.1	Attend to precision.	Introduction to Functions > Represent Proportional Relationships > Discover > Investigate > Investigation 3: Rate of Change and Slope  <a href="https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2485c9d5-4ca4-4b5d-a812-58d1cf3635e4">https://app.discoveryeducation.com/learn/techbook/units/a96818f5-c226-49ec-bc78-a0594707de88/concepts/bcea2e30-74a4-4500-84bc-6d4470261b4a/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/2485c9d5-4ca4-4b5d-a812-58d1cf3635e4</a>
MAFS.K12.MP.6.1	Attend to precision.	Real Numbers > Investigate Square Roots and Cube Roots > Discover > Investigate > Investigation 3: Pinpoint those Numbers  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/70aa0bcb-6c87-46e7-acbb-2919cb514e76/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/866384b6-839d-4041-9850-79b3d750aad7">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/70aa0bcb-6c87-46e7-acbb-2919cb514e76/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/866384b6-839d-4041-9850-79b3d750aad7</a>

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MAFS.K12.MP.7.1	Look for and make use of structure.	Real Numbers > Investigate Square Roots and Cube Roots > Discover > Investigate > Investigation 1: Something Radical  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/70aa0bcb-6c87-46e7-acbb-2919cb514e76/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e2c691be-332d-41f5-a68f-4c0a0af4d14b">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/70aa0bcb-6c87-46e7-acbb-2919cb514e76/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e2c691be-332d-41f5-a68f-4c0a0af4d14b</a>
MAFS.K12.MP.7.1	Look for and make use of structure.	Scientific Notation > Represent Large and Small Numbers > Discover > Investigate > Investigation 1: Compact It! > noted when students share how the scientific notation is related to the standard form  <a href="https://app.discoveryeducation.com/learn/techbook/units/2e07479f-63e5-4f2b-a4a1-fc18d4f27875/concepts/8b97a8e7-079d-4b74-8eed-bc9e3e0d5394/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/548fdc38-cd7f-4fc3-90b1-b2d5ec1ecb0e">https://app.discoveryeducation.com/learn/techbook/units/2e07479f-63e5-4f2b-a4a1-fc18d4f27875/concepts/8b97a8e7-079d-4b74-8eed-bc9e3e0d5394/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/548fdc38-cd7f-4fc3-90b1-b2d5ec1ecb0e</a>
MAFS.K12.MP.7.1	Look for and make use of structure.	Bivariate Data > Create and Analyze Scatter Plots > Discover > Investigate > Investigation 3: Analyzing Scatter Plots > Make a Conjecture  <a href="https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1670a120-382d-46d6-8a02-e945833ecad9">https://app.discoveryeducation.com/learn/techbook/units/72257bd7-7c55-4a5c-b2ff-8cd16600d5be/concepts/db36f7dd-762b-4c67-8d05-973ceadf30eb/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/1670a120-382d-46d6-8a02-e945833ecad9</a>
MAFS.K12.MP.8.1	Look for and express regularity in repeated reasoning.	Real Numbers > Investigate Square Roots and Cube Roots > Discover > Investigate > Investigation 1: Something Radical  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/70aa0bcb-6c87-46e7-acbb-2919cb514e76/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e2c691be-332d-41f5-a68f-4c0a0af4d14b">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/70aa0bcb-6c87-46e7-acbb-2919cb514e76/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/e2c691be-332d-41f5-a68f-4c0a0af4d14b</a>

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.8.1	Look for and express regularity in repeated reasoning.	Exponents > Understand Negative Exponents > Discover > Investigate > Investigation 1: Zero Power > see first Teacher Note  <a href="https://app.discoveryeducation.com/learn/techbook/units/014e6947-c24b-4c5d-bd55-60139d53bdb0/concepts/96477290-647b-4efa-bf23-890097cb5cf2/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/78cffff1-5fbb-431c-9a7d-8cf4e66c2f01">https://app.discoveryeducation.com/learn/techbook/units/014e6947-c24b-4c5d-bd55-60139d53bdb0/concepts/96477290-647b-4efa-bf23-890097cb5cf2/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/78cffff1-5fbb-431c-9a7d-8cf4e66c2f01</a>
MAFS.K12.MP.8.1	Look for and express regularity in repeated reasoning.	Real Numbers > Convert between Decimals and Fractions > Discover > Investigate > Investigation 3: Shape Shifting Part 3: Identify the Criminal > see first Teacher Note  <a href="https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/2939c6b8-238d-416a-86a4-3741c61b01ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/87953cc6-994a-4d72-a09a-ffb4fb778dbc">https://app.discoveryeducation.com/learn/techbook/units/af0b44c4-f7f7-48ae-b9bb-241f35de095e/concepts/2939c6b8-238d-416a-86a4-3741c61b01ab/tabs/19155618-5d23-4aa5-a4e5-017f733dab9a/pages/87953cc6-994a-4d72-a09a-ffb4fb778dbc</a>