2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

SUBMISSION	Chemistry - Florida (2017)
GRADE LEVEL:	HS
PUBLISHER:	Discovery Education

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.1.1	Make sense of problems and persevere in solving them.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Structure of the Periodic Table > Explore > Explore More Resources > Hands - On Lab: Structure of the Periodic Table	https://app.discoveryeducation.com/player/view/assetGuid/65bc5d90-c223-4a30-87d0-a9e61397a24d
MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Covalent Bonding > Elaborate with STEM > STEM Project Starters page 2 > Project: Mixed - Up Fuel	https://app.discoveryeducation.com/learn/techbook/units/c8070963-99d2-4240-8b6d-d38435a6bc2a/concepts/5b58c6f0-480d-4eed-addc-7ae64071bf52/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/3e46d19d-5aaf-4e80-95ec-59a689258dee
MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Elaborate with STEM > STEM Project Starters page 1 > Project: Acids and Bases Around You	https://app.discoveryeducation.com/learn/techbook/units/4a465543-a6f9-4a99-b977-6f183ad7dbb4/concepts/f2737116-86ba-4eab-95ed-06ad42a956f5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/f80eaf92-b991-44d9-a013-6c2e9d18b6dd
MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Explore > Explore More Resources > Hands - On Lab: Planning Your Own Acid - Base Titration Using Probeware	https://app.discoveryeducation.com/player/view/assetGuid/20067b3f-2d13-4bc4-8768-455a1ddf7dc2
MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Elaborate with STEM > STEM Project Starters page 1 > Project: Counting Calories	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/324a5833-391b-4a2e-b3f3-7a7d19fa460b/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/e87d773c-22c1-47ec-808f-0e0d4a186835
MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Covalent Bonding > Elaborate with STEM > STEM Project Starters page 2 > Project: Mixed - Up Fuel	https://app.discoveryeducation.com/learn/techbook/units/c8070963-99d2-4240-8b6d-d38435a6bc2a/concepts/5b58c6f0-480d-4eed-addc-7ae64071bf52/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/3e46d19d-5aaf-4e80-95ec-59a689258dee
MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Mathematics of Formulas and Equations > Explore > p 3 > Activity: Problem Solving Worksheet: Mole Conversions	https://app.discoveryeducation.com/player/view/assetGuid/95778460-bfb0-4370-b7a6-5df046885062
MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Nuclear Chemistry > Explore > Explore More Resources > Hands - On Lab: Half - Life	https://app.discoveryeducation.com/player/view/assetGuid/976de3de-7cbf-4964-9910-7fb08e105112

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MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Gas Laws > Explore > Explore More Resources > Activity: Calculating Volume of an Ideal Gas	https://app.discoveryeducation.com/player/view/assetGuid/9c213092-a8d6-433a-b72a-6058d86eca81
MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Quantum Mechanics > Explore > Explore More Resources > Hands - On Lab: Quantum Orbitals	https://app.discoveryeducation.com/player/view/assetGuid/695d80a1-1a81-478e-89f5-67daae04d698
MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Parts of the Atom > Elaborate with STEM > STEM in Action: Applying Parts of the Atom	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/b6933f2e-81d6-4b36-8f1f-0bf8399d2863/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Ionic Bonding > Elaborate with STEM > STEM in Action: Applying Ionic Bonding	https://app.discoveryeducation.com/learn/techbook/units/c8070963-99d2-4240-8b6d-d38435a6bc2a/concepts/0c8b0dab-68a3-4e2b-ab27-7d599e026ce1/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Chemical Reactions and Equations > Elaborate with STEM > STEM in Action: Applying Chemical Reactions and Equations	https://app.discoveryeducation.com/learn/techbook/units/445980e9-f5a8-40e4-a6ee-0610868b3a36/concepts/95b34eaf-0130-42b8-89dd-0d0cbf276c1e/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Organic Chemistry > Elaborate with STEM > STEM in Action: Applying Organic Chemistry	https://app.discoveryeducation.com/learn/techbook/units/95916cc9-2a76-48f1-8a10-5486d0352b3c/concepts/ca7f3706-70c4-4ed2-9c96-a0cd73c25f4e/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Covalent Bonding > Explore > Explore More Resources > Hands - On Lab: Toying with Bonds	https://app.discoveryeducation.com/player/view/assetGuid/4b8ad2bd-5b56-467e-a9bd-6ee24b816dca
MAFS.K12.MP.4.1	Model with mathematics.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Covalent Bonding > Elaborate with STEM > STEM in Action: Applying Covalent Bonding	https://app.discoveryeducation.com/learn/techbook/units/c8070963-99d2-4240-8b6d-d38435a6bc2a/concepts/5b58c6f0-480d-4eed-addc-7ae64071bf52/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
MAFS.K12.MP.4.1	Model with mathematics.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Chemical Reactions and Equations > Explore > Explore More Resources > Hands - On Lab: Classifying and Describing Chemical Reactions	https://app.discoveryeducation.com/player/view/assetGuid/753c429b-a1cf-4129-915b-c9764ff7b097

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
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MAFS.K12.MP.4.1	Model with mathematics.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Mathematics of Formulas and Equations > Elaborate with STEM > STEM Project Starters page 2 > Project: Able to Label	https://app.discoveryeducation.com/learn/techbook/units/445980e9-f5a8-40e4-a6ee-0610868b3a36/concepts/8ffdf1c7-afc6-43a2-a53a-0b3c1aa92f6a/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/e3b218c2-7d62-4616-9c17-66d41c88d4ef
MAFS.K12.MP.4.1	Model with mathematics.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Elaborate with STEM > STEM Project Starters page 1 > Project: Counting Calories	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/324a5833-391b-4a2e-b3f3-7a7d19fa460b/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/e87d773c-22c1-47ec-808f-0e0d4a186835
MAFS.K12.MP.4.1	Model with mathematics.	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Explore > Explore More Resources > Hands - On Lab: Planning Your Own Acid - Base Titration Using Probeware	https://app.discoveryeducation.com/player/view/assetGuid/20067b3f-2d13-4bc4-8768-455a1ddf7dc2
MAFS.K12.MP.5.1	Use appropriate tools strategically.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Oxidation - Reduction Reactions > Explore > Explore More Resources > Hands - On Lab: Redox and Rust	https://app.discoveryeducation.com/player/view/assetGuid/30d3c8de-6e77-4330-b061-201934cd518c
MAFS.K12.MP.5.1	Use appropriate tools strategically.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Chemical Reactions and Equations > Explore > Explore More Resources > Hands - On Lab: Classifying and Describing Chemical Reactions	https://app.discoveryeducation.com/player/view/assetGuid/753c429b-a1cf-4129-915b-c9764ff7b097
MAFS.K12.MP.5.1	Use appropriate tools strategically.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Electrochemistry > Explore > Explore More Resources > Hands - On Lab: Making and Measuring Voltaic Cells	https://app.discoveryeducation.com/player/view/assetGuid/b52040ce-6252-48d6-af80-42e5645041db
MAFS.K12.MP.5.1	Use appropriate tools strategically.	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Explore > Explore More Resources > Hands - On Lab: Planning Your Own Acid - Base Titration Using Probeware	https://app.discoveryeducation.com/player/view/assetGuid/20067b3f-2d13-4bc4-8768-455a1ddf7dc2
MAFS.K12.MP.5.1	Use appropriate tools strategically.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Arrangement of Electrons in the Atom > Explore > Explore More Resources > Hands - On Lab: Hydrogen Spectrum Lab	https://app.discoveryeducation.com/player/view/assetGuid/f5e73e1d-f07a-499f-ae98-573ebe9c5931

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MAFS.K12.MP.6.1	Attend to precision.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Elaborate with STEM > STEM in Action: Applying Development of the Atomic Theory	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
MAFS.K12.MP.6.1	Attend to precision.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Ionic Bonding > Elaborate with STEM > STEM Project Starters page 2 > Project: Snow Removal and Ice Cream	https://app.discoveryeducation.com/learn/techbook/units/c8070963-99d2-4240-8b6d-d38435a6bc2a/concepts/0c8b0dab-68a3-4e2b-ab27-7d599e026ce1/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/c1591c0d-30fe-464b-9112-4684f91d3ec3
MAFS.K12.MP.6.1	Attend to precision.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Chemical Reactions and Equations > Explore > Explore More Resources > Hands - On Lab: Classifying and Describing Chemical Reactions	https://app.discoveryeducation.com/player/view/assetGuid/753c429b-a1cf-4129-915b-c9764ff7b097
MAFS.K12.MP.6.1	Attend to precision.	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Explore > Explore More Resources > Hands - On Lab: Planning Your Own Acid - Base Titration Using Probeware	https://app.discoveryeducation.com/player/view/assetGuid/20067b3f-2d13-4bc4-8768-455a1ddf7dc2
MAFS.K12.MP.6.1	Attend to precision.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Elaborate with STEM > STEM Project Starters page 2 > Project: The New Fuel	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/324a5833-391b-4a2e-b3f3-7a7d19fa460b/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/29998fc2-cabe-49b2-ae64-ab6393da2257
MAFS.K12.MP.7.1	Look for and make use of structure.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Structure of the Periodic Table > Explore > Explore More Resources > Hands - On Lab: Structure of the Periodic Table	https://app.discoveryeducation.com/player/view/assetGuid/65bc5d90-c223-4a30-87d0-a9e61397a24d
MAFS.K12.MP.7.1	Look for and make use of structure.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Lewis Structures and Molecular Geometry > Explore > p 2 > Assignment: Check for Understanding: Constructing Lewis Structures	https://app.discoveryeducation.com/player/view/assetGuid/37a15d1c-091a-4091-9cc6-a963fea9d4d1
MAFS.K12.MP.7.1	Look for and make use of structure.	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Elaborate with STEM > STEM in Action: Acids, Bases, and Salts	https://app.discoveryeducation.com/learn/techbook/units/4a465543-a6f9-4a99-b977-6f183ad7dbb4/concepts/f2737116-86ba-4eab-95ed-06ad42a956f5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
MAFS.K12.MP.7.1	Look for and make use of structure.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Explore > Explore More Resources > Activity: Phase Diagram Problems	https://app.discoveryeducation.com/player/view/assetGuid/e84a6e4f-6a92-4f68-967d-b55d7e91bdcc

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MAFS.K12.MP.7.1	Look for and make use of structure.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Lewis Structures and Molecular Geometry > Explore > Explore More Resources > Hands - On Lab: VSEPR and Molecular Shapes	https://app.discoveryeducation.com/player/view/assetGuid/dcf75db1-b0e8-4b90-aa46-37c2fd502756
MAFS.K12.MP.8.1	Look for and express regularity in repeated reasoning.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Nuclear Chemistry > Explore > Explore More Resources > Hands - On Lab: Half - Life	https://app.discoveryeducation.com/player/view/assetGuid/976de3de-7cbf-4964-9910-7fb08e105112
MAFS.K12.MP.8.1	Look for and express regularity in repeated reasoning.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Explore > Explore More Resources > Activity: Phase Diagram Problems	https://app.discoveryeducation.com/player/view/assetGuid/e84a6e4f-6a92-4f68-967d-b55d7e91bdcc
SC.912.L.18.12:	Discuss the special properties of water that contribute to Earth's suitability as an environment for life: cohesive behavior, ability to moderate temperature, expansion upon freezing, and versatility as a solvent.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Chemical and Physical Properties and Changes > Explore > p1 > Physical and Chemical Properties	https://app.discoveryeducation.com/learn/techbook/units/70d90782-228b-45de-a951-82aaf0205aa6/concepts/b7e0a807-e678-4688-8ca0-90e35c9a55c4/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.N.1.1:	Define a problem based on a specific body of knowledge, for example: biology, chemistry, physics, and earth/space science, and do the following:	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Explore > Explore More Resources > Hands - On Lab: Planning Your Own Acid - Base Titration Using Probeware	https://app.discoveryeducation.com/player/view/assetGuid/20067b3f-2d13-4bc4-8768-455a1ddf7dc2
SC.912.N.1.1	Define a problem based on a specific body of knowledge, for example: biology, chemistry, physics, and earth/space science, and do the following:	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Covalent Bonding > Explore > Explore More Resources > Hands - On Lab: Toying with Bonds	https://app.discoveryeducation.com/player/view/assetGuid/4b8ad2bd-5b56-467e-a9bd-6ee24b816dca

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SC.912.N.1.1	Define a problem based on a specific body of knowledge, for example: biology, chemistry, physics, and earth/space science, and do the following:	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Elaborate with STEM > STEM Project Starters page 1 > Project: Counting Calories	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/324a5833-391b-4a2e-b3f3-7a7d19fa460b/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/e87d773c-22c1-47ec-808f-0e0d4a186835
SC.912.N.1.2:	Describe and explain what characterizes science and its methods.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Chemistry and Society > Explore > Explore More Resources > Reading Passage: Impact of Research	https://app.discoveryeducation.com/player/view/assetGuid/a64c399d-0540-404c-b7ba-29df9a000ae4
SC.912.N.1.2	Describe and explain what characterizes science and its methods.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Gas Laws > Explore > p 3 > Reading Passage: The Man Who Had a Law Named After Him	https://app.discoveryeducation.com/player/view/assetGuid/424d70c3-3d3c-478d-ae7f-4ecfeb50bebb
SC.912.N.1.2	Describe and explain what characterizes science and its methods.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Explore > Explore More Resources > Exploration: Development of the Atomic Theory	https://app.discoveryeducation.com/player/view/assetGuid/70f5ee14-1fa9-4622-8b9a-04699c875ded
SC.912.N.1.4:	Identify sources of information and assess their reliability according to the strict standards of scientific investigation.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Chemical Reactions and Equations > Elaborate with STEM > STEM Project Starters page 1 > Project: How Can You Scrub a Smokestack?	https://app.discoveryeducation.com/learn/techbook/units/445980e9-f5a8-40e4-a6ee-0610868b3a36/concepts/95b34eaf-0130-42b8-89dd-0d0cbf276c1e/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/de5856ee-b337-4df9-95f6-35a36a28a5d0
SC.912.N.1.4	Identify sources of information and assess their reliability according to the strict standards of scientific investigation.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Electrochemistry > Elaborate with STEM > STEM Project Starters page 2 > Project: Fuel Cell or Battery?	https://app.discoveryeducation.com/learn/techbook/units/718950d7-60b8-4f04-b60c-6704e9c26871/concepts/3a91e637-f48d-471a-b1c2-983393c3c8f6/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/596b91b0-2229-4146-9704-97a7637e5080
SC.912.N.1.4	Identify sources of information and assess their reliability according to the strict standards of scientific investigation.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Chemical Equilibrium > Elaborate with STEM > STEM Project Starters page 3 > Project: Conditions Affecting Smog	https://app.discoveryeducation.com/learn/techbook/units/5b76a189-a2e9-4cbf-a9c9-b375e45d9887/concepts/684c4ac6-91f5-4f24-9877-71b2c7cf64bb/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/6726dab9-b0e1-4054-b119-229ed0d34196
SC.912.N.1.5:	Describe and provide examples of how similar investigations conducted in many parts of the world result in the same outcome.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Oxidation - Reduction Reactions > Explore > Explore More Resources > Reading Passage: How Did They Discover Steel? (They Smelt It)	https://app.discoveryeducation.com/player/view/assetGuid/da34d653-1db3-4046-9d54-09f0551d96a3

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SC.912.N.1.6:	Describe how scientific inferences are drawn from scientific observations and provide examples from the content being studied.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Elaborate with STEM > STEM in Action: Applying Development of the Atomic Theory	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
SC.912.N.1.6	Describe how scientific inferences are drawn from scientific observations and provide examples from the content being studied.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Explore > Explore More Resources > Exploration: Development of the Atomic Theory	https://app.discoveryeducation.com/player/view/assetGuid/70f5ee14-1fa9-4622-8b9a-04699c875ded
SC.912.N.1.6	Describe how scientific inferences are drawn from scientific observations and provide examples from the content being studied.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Gas Laws > Explore > p 3 > Reading Passage: The Man Who Had a Law Named After Him	https://app.discoveryeducation.com/player/view/assetGuid/424d70c3-3d3c-478d-ae7f-4ecfeb50bebb
SC.912.N.1.7:	Recognize the role of creativity in constructing scientific questions, methods and explanations.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Covalent Bonding > Explore > Explore More Resources > Reading Passage: The History of Resonance Structures	https://app.discoveryeducation.com/player/view/assetGuid/7a8c45e0-9f41-4af5-96e7-ec0afcd25cdc
SC.912.N.1.7	Recognize the role of creativity in constructing scientific questions, methods and explanations.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Explore > Explore More Resources > Exploration: Development of the Atomic Theory	https://app.discoveryeducation.com/player/view/assetGuid/70f5ee14-1fa9-4622-8b9a-04699c875ded
SC.912.N.1.7	Recognize the role of creativity in constructing scientific questions, methods and explanations.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Elaborate with STEM > STEM in Action: Applying Development of the Atomic Theory	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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SC.912.N.2.2:	Identify which questions can be answered through science and which questions are outside the boundaries of scientific investigation, such as questions addressed by other ways of knowing, such as art, philosophy, and religion.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Organic Chemistry > Explore > Explore More Resources > Reading Passage: Science, Philosophy, and Urea	https://app.discoveryeducation.com/player/view/assetGuid/38c4b163-0911-43d2-bd7e-be70db843f41
SC.912.N.2.2	Identify which questions can be answered through science and which questions are outside the boundaries of scientific investigation, such as questions addressed by other ways of knowing, such as art, philosophy, and religion.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Quantum Mechanics > Explore > Explore More Resources > Reading Passage: Schrodinger's Question	https://app.discoveryeducation.com/player/view/assetGuid/82510c2e-4201-49aa-b70c-d6c26a1bb365
SC.912.N.2.4:	Explain that scientific knowledge is both durable and robust and open to change. Scientific knowledge can change because it is often examined and re-examined by new investigations and scientific argumentation. Because of these frequent examinations, scientific knowledge becomes stronger, leading to its durability.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Explore >Explore More Resources > Reading Passage: Dalton's Atomic Theory	https://app.discoveryeducation.com/player/view/assetGuid/2FE20360-84FE-465C-9191-098C73D53694

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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SC.912.N.2.4	Explain that scientific knowledge is both durable and robust and open to change. Scientific knowledge can change because it is often examined and re-examined by new investigations and scientific argumentation. Because of these frequent examinations, scientific knowledge becomes stronger, leading to its durability.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Explore > Explore More Resources > Reading Passage: Linus Pauling and Atomic Pulling Power	https://app.discoveryeducation.com/player/view/assetGuid/b148b333-ee3b-4d4f-9004-a9d51fb728f5
SC.912.N.2.4	Explain that scientific knowledge is both durable and robust and open to change. Scientific knowledge can change because it is often examined and re-examined by new investigations and scientific argumentation. Because of these frequent examinations, scientific knowledge becomes stronger, leading to its durability.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Mathematics of Formulas and Equations > Explore > Explore More Resources > Reading Passage: Stoichiometry Was Never Easy	https://app.discoveryeducation.com/player/view/assetGuid/6bd3418d-0070-40f3-b942-423ed2262b5b

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
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SC.912.N.2.5:	Describe instances in which scientists' varied backgrounds, talents, interests, and goals influence the inferences and thus the explanations that they make about observations of natural phenomena and describe that competing interpretations (explanations) of scientists are a strength of science as they are a source of new, testable ideas that have the potential to add new evidence to support one or another of the explanations.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Elaborate with STEM > STEM Project Starters page 2 > Project: Legends and Rumors	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/f69bdf55-86d1-4a34-b4de-7e630d1e058b
SC.912.N.2.5	Describe instances in which scientists' varied backgrounds, talents, interests, and goals influence the inferences and thus the explanations that they make about observations of natural phenomena and describe that competing interpretations (explanations) of scientists are a strength of science as they are a source of new, testable ideas that have the potential to add new evidence to support one or another of the explanations.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Covalent Bonding > Explore > Explore More Resources > Reading Passage: The History of Resonance Structures	https://app.discoveryeducation.com/player/view/assetGuid/7a8c45e0-9f41-4af5-96e7-ec0afcd25cdc
SC.912.N.2.5	Describe instances in which scientists' varied backgrounds, talents, interests, and goals influence the inferences and thus the explanations that they make about observations of natural phenomena and describe that competing interpretations (explanations) of scientists are a strength of science as they are a source of new, testable ideas that have the potential to add new evidence to support one or another of the explanations.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Quantum Mechanics > Explore > Explore More Resources > Reading Passage: Schrodinger's Question	https://app.discoveryeducation.com/player/view/assetGuid/82510c2e-4201-49aa-b70c-d6c26a1bb365

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
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SC.912.N.3.2:	Describe the role consensus plays in the historical development of a theory in any one of the disciplines of science.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Mathematics of Formulas and Equations > Explore > Explore More Resources > Reading Passage: Stoichiometry Was Never Easy	https://app.discoveryeducation.com/player/view/assetGuid/6bd3418d-0070-40f3-b942-423ed2262b5b
SC.912.N.3.2	Describe the role consensus plays in the historical development of a theory in any one of the disciplines of science.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Explore > Explore More Resources > Exploration: Development of the Atomic Theory	https://app.discoveryeducation.com/player/view/assetGuid/70f5ee14-1fa9-4622-8b9a-04699c875ded
SC.912.N.3.2	Describe the role consensus plays in the historical development of a theory in any one of the disciplines of science.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Quantum Mechanics > Explore > Explore More Resources > Reading Passage: Schrodinger's Question	https://app.discoveryeducation.com/player/view/assetGuid/82510c2e-4201-49aa-b70c-d6c26a1bb365
SC.912.N.3.3:	Explain that scientific laws are descriptions of specific relationships under given conditions in nature, but do not offer explanations for those relationships.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Elaborate with STEM > STEM in Action: Applying Development of the Atomic Theory	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
SC.912.N.3.3	Explain that scientific laws are descriptions of specific relationships under given conditions in nature, but do not offer explanations for those relationships.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Mathematics of Formulas and Equations > Explore > Explore More Resources > Reading Passage: Stoichiometry Was Never Easy	https://app.discoveryeducation.com/player/view/assetGuid/6bd3418d-0070-40f3-b942-423ed2262b5b
SC.912.N.3.3	Explain that scientific laws are descriptions of specific relationships under given conditions in nature, but do not offer explanations for those relationships.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Gas Laws > Explore > p 3 > Reading Passage: The Man Who Had a Law Named After Him	https://app.discoveryeducation.com/player/view/assetGuid/424d70c3-3d3c-478d-ae7f-4ecfeb50bebb
SC.912.N.3.5:	Describe the function of models in science, and identify the wide range of models used in science.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Lewis Structures and Molecular Geometry > Explore > Explore More Resources > Hands - On Lab: VSEPR and Molecular Shapes	https://app.discoveryeducation.com/player/view/assetGuid/dcf75db1-b0e8-4b90-aa46-37c2fd502756

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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SC.912.N.3.5	Describe the function of models in science, and identify the wide range of models used in science.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Covalent Bonding > Explore > Explore More Resources > Reading Passage: The History of Resonance Structures	https://app.discoveryeducation.com/player/view/assetGuid/7a8c45e0-9f41-4af5-96e7-ec0afcd25cdc
SC.912.N.3.5	Describe the function of models in science, and identify the wide range of models used in science.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Quantum Mechanics > Explore > Explore More Resources > Hands - On Lab: Quantum Orbitals	https://app.discoveryeducation.com/player/view/assetGuid/695d80a1-1a81-478e-89f5-67daae04d698
SC.912.N.4.1:	Explain how scientific knowledge and reasoning provide an empirically-based perspective to inform society's decision making.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Chemical Reactions and Equations > Elaborate with STEM > STEM Project Starters page 1 > Project: How Can You Scrub a Smokestack?	https://app.discoveryeducation.com/learn/techbook/units/445980e9-f5a8-40e4-a6ee-0610868b3a36/concepts/95b34eaf-0130-42b8-89dd-0d0cbf276c1e/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/de5856ee-b337-4df9-95f6-35a36a28a5d0
SC.912.N.4.1	Explain how scientific knowledge and reasoning provide an empirically-based perspective to inform society's decision making.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM in Action: Applying Chemical Thermodynamics > Reading Passage: Fuel for Thought . . . And Thoughts on Fuel	https://app.discoveryeducation.com/player/view/assetGuid/3b310bfe-4728-4f0e-b6b5-edf29566b5e2
SC.912.P.8.1:	Differentiate among the four states of matter.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Chemical and Physical Properties and Changes > Explore > p 1 > Physical and Chemical Properties	https://app.discoveryeducation.com/learn/techbook/units/70d90782-228b-45de-a951-82aaf0205aa6/concepts/15206787-c5a4-4506-b014-82e1d56d8057/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.8.1	Differentiate among the four states of matter.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Chemical and Physical Properties and Changes > Explore > p 1 > Physical and Chemical Properties	https://app.discoveryeducation.com/learn/techbook/units/70d90782-228b-45de-a951-82aaf0205aa6/concepts/b7e0a807-e678-4688-8ca0-90e35c9a55c4/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.8.1	Differentiate among the four states of matter.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Chemical and Physical Properties and Changes > p 1 > Assignment: Check for Understanding: Extensive and Intensive Properties	https://app.discoveryeducation.com/player/view/assetGuid/fe52914a-135e-487d-ac42-04a6449d67a9
SC.912.P.8.1	Differentiate among the four states of matter.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Chemical and Physical Properties and Changes > Explore > p 1 > Physical and Chemical Properties	https://app.discoveryeducation.com/learn/techbook/units/70d90782-228b-45de-a951-82aaf0205aa6/concepts/15206787-c5a4-4506-b014-82e1d56d8057/tabs/759da9a7-2edf-4cde-9515-7081ca990764

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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SC.912.P.8.2:	Differentiate between physical and chemical properties and physical and chemical changes of matter.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Chemical and Physical Properties and Changes > Explore > Explore More Resources > Exploration: Chemical and Physical Properties and Changes	https://app.discoveryeducation.com/player/view/assetGuid/47127c45-8a0d-47f6-b99a-13b3ff621bcc
SC.912.P.8.2	Differentiate between physical and chemical properties and physical and chemical changes of matter.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Chemical and Physical Properties and Changes > Explore > Explore More Resources > Hands - On Lab: Chemical and Physical Properties and Changes	https://app.discoveryeducation.com/player/view/assetGuid/174c447e-7730-4da9-8424-b3892b167fec
SC.912.P.8.2	Differentiate between physical and chemical properties and physical and chemical changes of matter.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Chemical and Physical Properties and Changes > Elaborate with STEM > STEM Project Starters page 2 > Project: Identifying Rocks	https://app.discoveryeducation.com/learn/techbook/units/70d90782-228b-45de-a951-82aaf0205aa6/concepts/b7e0a807-e678-4688-8ca0-90e35c9a55c4/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/a51bf533-4118-433e-bbc5-538a6937d3c2
SC.912.P.8.3:	Explore the scientific theory of atoms (also known as atomic theory) by describing changes in the atomic model over time and why those changes were necessitated by experimental evidence.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Explore > p 1 > How did the atomic theory evolve from ancient Greece to modern day, and which key scientists made which contributions?	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.8.3	Explore the scientific theory of atoms (also known as atomic theory) by describing changes in the atomic model over time and why those changes were necessitated by experimental evidence.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Explore > Explore More Resources > Exploration: Development of the Atomic Theory	https://app.discoveryeducation.com/player/view/assetGuid/70f5ee14-1fa9-4622-8b9a-04699c875ded
SC.912.P.8.3	Explore the scientific theory of atoms (also known as atomic theory) by describing changes in the atomic model over time and why those changes were necessitated by experimental evidence.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Explore > p 1 > Reading Passage: Dalton's Atomic Theory	https://app.discoveryeducation.com/player/view/assetGuid/2FE20360-84FE-465C-9191-098C73D53694

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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SC.912.P.8.4:	Explore the scientific theory of atoms (also known as atomic theory) by describing the structure of atoms in terms of protons, neutrons and electrons, and differentiate among these particles in terms of their mass, electrical charges and locations within the atom.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Explore > p 1 > How did the atomic theory evolve from ancient Greece to modern day, and which key scientists made which contributions?	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/b6933f2e-81d6-4b36-8f1f-0bf8399d2863/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.8.4	Explore the scientific theory of atoms (also known as atomic theory) by describing the structure of atoms in terms of protons, neutrons and electrons, and differentiate among these particles in terms of their mass, electrical charges and locations within the atom.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Parts of the Atom > Explore > Explore More Resources > Exploration: Parts of the Atom	https://app.discoveryeducation.com/player/view/assetGuid/571e4d41-7c85-438f-a11b-c9179b607bc9
SC.912.P.8.5:	Relate properties of atoms and their position in the periodic table to the arrangement of their electrons.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Structure of the Periodic Table > Explore > Explore More Resources > Exploration: Structure of the Periodic Table	https://app.discoveryeducation.com/player/view/assetGuid/fe066db4-b32c-4e98-8fc1-042aad596e04
SC.912.P.8.5	Relate properties of atoms and their position in the periodic table to the arrangement of their electrons.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Structure of the Periodic Table > Explore > p 1 > The Periodic Table	https://app.discoveryeducation.com/learn/techbook/units/43bee021-a38d-4f6c-8050-25a79d6eec2d/concepts/8148163a-3023-442b-b1bb-d7b65aef23c5/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.8.6:	Distinguish between bonding forces holding compounds together and other attractive forces, including hydrogen bonding and van der Waals forces.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Covalent Bonding > Explore > Explore More Resources > Exploration: Covalent Bonding	https://app.discoveryeducation.com/player/view/assetGuid/ce2fa987-702a-4155-b64e-72254748b51d

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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SC.912.P.8.6	Distinguish between bonding forces holding compounds together and other attractive forces, including hydrogen bonding and van der Waals forces.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Lewis Structures and Molecular Geometry > Elaborate with STEM > STEM Project Starters page 2 > Project: Sticky Feet	https://app.discoveryeducation.com/learn/techbook/units/c8070963-99d2-4240-8b6d-d38435a6bc2a/concepts/30cf6ed4-b566-42b1-a01b-8fab63de37f1/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/840aed8b-921e-470f-8a69-cb07ac17aead
SC.912.P.8.6	Distinguish between bonding forces holding compounds together and other attractive forces, including hydrogen bonding and van der Waals forces.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Lewis Structures and Molecular Geometry > Elaborate with STEM > STEM in Action: Applying Lewis Structure and Molecular Geometry	https://app.discoveryeducation.com/learn/techbook/units/c8070963-99d2-4240-8b6d-d38435a6bc2a/concepts/30cf6ed4-b566-42b1-a01b-8fab63de37f1/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
SC.912.P.8.7:	Interpret formula representations of molecules and compounds in terms of composition and structure.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Nomenclature > Explore > p 1 > Activity: Nomenclature of Molecular Compounds	https://app.discoveryeducation.com/player/view/assetGuid/b651ea20-a68f-4607-a4a7-55a4b6077cfb
SC.912.P.8.7	Interpret formula representations of molecules and compounds in terms of composition and structure.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Nomenclature > Explore > Explore More Resources > Hands - On Lab: Naming Ionic Compounds	https://app.discoveryeducation.com/player/view/assetGuid/79177fdd-afcc-4386-b2d0-6a15b282389a
SC.912.P.8.7	Interpret formula representations of molecules and compounds in terms of composition and structure.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Nomenclature > Explore > Explore More Resources > Hands - On Activity: Nomenclature Bingo	https://app.discoveryeducation.com/player/view/assetGuid/b3285ead-2ffa-4132-9597-efff3c02bc88
SC.912.P.8.8:	Characterize types of chemical reactions, for example: redox, acid-base, synthesis, and single and double replacement reactions.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Chemical Reactions and Equations > Explore > Explore More Resources > Exploration: Chemical Reactions and Equations	https://app.discoveryeducation.com/player/view/assetGuid/2f63a0f8-4c1c-4e09-b693-f7882c131483

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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SC.912.P.8.8	Characterize types of chemical reactions, for example: redox, acid-base, synthesis, and single and double replacement reactions.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Chemical Reactions and Equations > Explore > p 1 > Classifying Reactions into Five Types	https://app.discoveryeducation.com/learn/techbook/units/445980e9-f5a8-40e4-a6ee-0610868b3a36/concepts/95b34eaf-0130-42b8-89dd-0d0cbf276c1e/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.8.8	Characterize types of chemical reactions, for example: redox, acid-base, synthesis, and single and double replacement reactions.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Chemical Reactions and Equations > Explore > Explore More Resources > Hands - On Lab: Classifying and Describing Chemical Reactions	https://app.discoveryeducation.com/player/view/assetGuid/753c429b-a1cf-4129-915b-c9764ff7b097
SC.912.P.8.9:	Apply the mole concept and the law of conservation of mass to calculate quantities of chemicals participating in reactions.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Mathematics of Formulas and Equations > Explore > Explore More Resources > Exploration: Mathematics of Formulas and Equations	https://app.discoveryeducation.com/player/view/assetGuid/fb04279a-0f70-47a4-a897-d2e0ff27d88e
SC.912.P.8.9	Apply the mole concept and the law of conservation of mass to calculate quantities of chemicals participating in reactions.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Mathematics of Formulas and Equations > Elaborate with STEM > STEM Project Starters page 1 > Project: Pressing Matters	https://app.discoveryeducation.com/learn/techbook/units/445980e9-f5a8-40e4-a6ee-0610868b3a36/concepts/8ffdf1c7-afc6-43a2-a53a-0b3c1aa92f6a/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/63846e08-99fc-4235-9a5f-da7bbddef550
SC.912.P.8.9	Apply the mole concept and the law of conservation of mass to calculate quantities of chemicals participating in reactions.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Mathematics of Formulas and Equations > Explore > p 3 > Activity: Problem - Solving Worksheet: Gas Stoichiometry: Mass - Mass Calculations	https://app.discoveryeducation.com/player/view/assetGuid/95778460-bfb0-4370-b7a6-5df046885062
SC.912.P.8.11:	Relate acidity and basicity to hydronium and hydroxyl ion concentration and pH.	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Explore > p 8 > Assignment: Calculating pH	https://app.discoveryeducation.com/player/view/assetGuid/18409681-c7a3-4d98-95e5-6f63f711cd7f
SC.912. P.8.11	Relate acidity and basicity to hydronium and hydroxyl ion concentration and pH.	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Elaborate with STEM > STEM Project Starters page 1 > Project: Acids and Bases Around You	https://app.discoveryeducation.com/learn/techbook/units/4a465543-a6f9-4a99-b977-6f183ad7dbb4/concepts/f2737116-86ba-4eab-95ed-06ad42a956f5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/f80eaf92-b991-44d9-a013-6c2e9d18b6dd
SC.912. P.8.11	Relate acidity and basicity to hydronium and hydroxyl ion concentration and pH.	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Explore > Explore More Resources > Hands - On Lab: Acid - Base Titrations	https://app.discoveryeducation.com/player/view/assetGuid/53a02dfe-bb6b-4dae-87b5-4fca127a7e14

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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SC.912.P.10.1:	Differentiate among the various forms of energy and recognize that they can be transformed from one form to others.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM in Action: Applying Chemical Thermodynamics > Reading Passage: Is Energy from a Battery Free?	https://app.discoveryeducation.com/player/view/assetGuid/3a691853-18cc-4e3a-99f4-8961826eb9b1
SC.912.P.10.1	Differentiate among the various forms of energy and recognize that they can be transformed from one form to others.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM in Action: Applying Chemical Thermodynamics > Reading Passage: Fuel for Thought . . . And Thoughts on Fuel	https://app.discoveryeducation.com/player/view/assetGuid/3b310bfe-4728-4f0e-b6b5-edf29566b5e2
SC.912.P.10.1	Differentiate among the various forms of energy and recognize that they can be transformed from one form to others.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM Project Starters page 2 > Project: Revving the Engine	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/0f6034e0-a7a5-48f6-8914-a23814448848/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/a10657d5-c3cf-4cac-b724-107ca477f12c
SC.912.P.10.5:	Relate temperature to the average molecular kinetic energy.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Explore > p 2 > From Hot to Cold	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/324a5833-391b-4a2e-b3f3-7a7d19fa460b/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/9bfd2a71-ca4e-4b4c-bd1a-80c239cf2dd0
SC.912.P.10.5	Relate temperature to the average molecular kinetic energy.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Explore > p 3 > Changing Temperature, Phase Change, and Specific Heat	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/324a5833-391b-4a2e-b3f3-7a7d19fa460b/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/496af2ac-555b-435e-92fe-75c9c8b340c4
SC.912.P.10.6:	Create and interpret potential energy diagrams, for example: chemical reactions, orbits around a central body, motion of a pendulum.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Explore > p 1 > Enthalpy	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/0f6034e0-a7a5-48f6-8914-a23814448848/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.10.7:	Distinguish between endothermic and exothermic chemical processes.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Explore > p 1 > How Do You Distinguish between Exothermic and Endothermic Reactions and Processes?	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/324a5833-391b-4a2e-b3f3-7a7d19fa460b/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.10.7	Distinguish between endothermic and exothermic chemical processes.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Explore > Explore More Resources > Reading Passage: Endothermic Can Be a Good Thing	https://app.discoveryeducation.com/player/view/assetGuid/43897a8e-de7f-4901-96bb-2e548ded1a94

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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SC.912.P.10.7	Distinguish between endothermic and exothermic chemical processes.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM in Action: Applying Chemical Thermodynamics	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/0f6034e0-a7a5-48f6-8914-a23814448848/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
SC.912.P.10.9:	Describe the quantization of energy at the atomic level.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Arrangement of Electrons in the Atom > Explore > Explore More Resources > Hands - On Lab: Hydrogen Spectrum Lab	https://app.discoveryeducation.com/player/view/assetGuid/f5e73e1d-f07a-499f-ae98-573ebe9c5931
SC.912.P.10.9	Describe the quantization of energy at the atomic level.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Arrangement of Electrons in the Atom > Explore > p 4 > Activity: Problem - Solving Worksheet: Light Wavelength, Frequency, and Energy	https://app.discoveryeducation.com/player/view/assetGuid/04b4411b-6313-4071-9001-7b9e4fe08c11
SC.912.P.10.9	Describe the quantization of energy at the atomic level.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Arrangement of Electrons in the Atom > Explore > Explore More Resources > Exploration: Arrangement of Electrons in the Atom	https://app.discoveryeducation.com/player/view/assetGuid/70267795-9a08-42e9-9497-9f6704aeb893
SC.912.P.10.12:	Differentiate between chemical and nuclear reactions.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Nuclear Chemistry > Explore > p 4 > Conservation of Matter and Energy	https://app.discoveryeducation.com/learn/techbook/units/95916cc9-2a76-48f1-8a10-5486d0352b3c/concepts/1558cc01-0d34-4cc7-ae9d-61a5687446dc/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/ca764c9d-b8c9-4254-ab3b-964f6a2354f5
SC.912.P.10.18:	Explore the theory of electromagnetism by comparing and contrasting the different parts of the electromagnetic spectrum in terms of wavelength, frequency, and energy, and relate them to phenomena and applications.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Spectroscopy > Explore > p 2 > Using Spectra to Identify Elements	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/228d1eac-9529-47c7-bdbe-12cb7f2e35b1/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/e4411245-18c0-4815-b5ad-a4a446042cbc
SC.912.P.10.18	Explore the theory of electromagnetism by comparing and contrasting the different parts of the electromagnetic spectrum in terms of wavelength, frequency, and energy, and relate them to phenomena and applications.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Nuclear Chemistry > Explore > p 1 > Three Types of Radiation	https://app.discoveryeducation.com/learn/techbook/units/95916cc9-2a76-48f1-8a10-5486d0352b3c/concepts/1558cc01-0d34-4cc7-ae9d-61a5687446dc/tabs/759da9a7-2edf-4cde-9515-7081ca990764

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
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SC.912.P.12.10:	Interpret the behavior of ideal gases in terms of kinetic molecular theory.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Gas Laws > Explore > Explore More Resources > Activity: Calculating Volume of an Ideal Gas	https://app.discoveryeducation.com/player/view/assetGuid/9c213092-a8d6-433a-b72a-6058d86eca81
SC.912.P.12.10	Interpret the behavior of ideal gases in terms of kinetic molecular theory.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Gas Laws > Explore > Explore More Resources > Exploration: Charles's Law	https://app.discoveryeducation.com/player/view/assetGuid/03216802-ebf9-4107-8d2d-1b0413e8f286
SC.912.P.12.10	Interpret the behavior of ideal gases in terms of kinetic molecular theory.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Gas Laws > Explore > Explore More Resources > Exploration: Boyle's Law	https://app.discoveryeducation.com/player/view/assetGuid/4b0cf434-81aa-4ef1-bcf5-49776c2f53c3
SC.912.P.12.10	Interpret the behavior of ideal gases in terms of kinetic molecular theory.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Gas Laws > Explore > p 2 > Charles's Law	https://app.discoveryeducation.com/learn/techbook/units/70d90782-228b-45de-a951-82aaf0205aa6/concepts/39d769e3-3c50-44df-9e07-f03562e99e22/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/51f0ec6d-ab4e-4b49-abc7-e5f7ca15ceb6
SC.912.P.12.11:	Describe phase transitions in terms of kinetic molecular theory.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Explore > p 3 > Changing Temperature, Phase Change, and Specific Heat	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/324a5833-391b-4a2e-b3f3-7a7d19fa460b/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/496af2ac-555b-435e-92fe-75c9c8b340c4
SC.912.P.12.12:	Explain how various factors, such as concentration, temperature, and presence of a catalyst affect the rate of a chemical reaction.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Reaction Rate > Explore > Explore More Resources > Exploration: Reaction Rate	https://app.discoveryeducation.com/player/view/assetGuid/74f71e73-c355-4957-a34f-b05a389ec017
SC.912.P.12.12	Explain how various factors, such as concentration, temperature, and presence of a catalyst affect the rate of a chemical reaction.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Reaction Rate > Explore > Explore More Resources > Hands - On Lab: Iodine Clock Reaction	https://app.discoveryeducation.com/player/view/assetGuid/2d917a97-dd42-4fce-8d71-66ba168315a6
SC.912.P.12.12	Explain how various factors, such as concentration, temperature, and presence of a catalyst affect the rate of a chemical reaction.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Reaction Rate > Explore > Explore More Resources > Hands - On Activity: Modeling Reaction Rates	https://app.discoveryeducation.com/player/view/assetGuid/5f72bc95-24e3-47d6-809e-55eb8ff606d9

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
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SC.912.P.12.13:	Explain the concept of dynamic equilibrium in terms of reversible processes occurring at the same rates.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Chemical Equilibrium > Explore > Explore More Resources > Exploration: Chemical Equilibrium	https://app.discoveryeducation.com/player/view/assetGuid/c6ff4961-50bc-429d-9d21-f56cf6c1b4e7
SC.912.P.12.13	Explain the concept of dynamic equilibrium in terms of reversible processes occurring at the same rates.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Chemical Equilibrium > Explore > p 1 > Reversible Reactions	https://app.discoveryeducation.com/learn/techbook/units/5b76a189-a2e9-4cbf-a9c9-b375e45d9887/concepts/684c4ac6-91f5-4f24-9877-71b2c7cf64bb/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.12.13	Explain the concept of dynamic equilibrium in terms of reversible processes occurring at the same rates.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Chemical Equilibrium > Explore > Explore More Resources > Hands - On Lab: Color Changes in Equilibrium Systems	https://app.discoveryeducation.com/player/view/assetGuid/974ea387-4541-4533-9443-6b5f307b8118
SC.912.P.8.1:	Differentiate among the four states of matter.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Gas Laws > Explore > Core Interactive Text page 2	https://app.discoveryeducation.com/learn/techbook/units/70d90782-228b-45de-a951-82aaf0205aa6/concepts/39d769e3-3c50-44df-9e07-f03562e99e22/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/51f0ec6d-ab4e-4b49-abc7-e5f7ca15ceb6
LAFS.1112.RST.1.1:	Cite specific textual evidence to support analysis of science and technical texts, attending to important distinctions the author makes and to any gaps or inconsistencies in the account.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Nuclear Chemistry > Explore > Explore More Resources > Reading Passage: Using Technology to Solve Real - World Problems: Nuclear Energy	https://app.discoveryeducation.com/player/view/assetGuid/6b496fd6-49c5-4399-8405-9692e7803c9b
LAFS.1112.RST.1.1:	Cite specific textual evidence to support analysis of science and technical texts, attending to important distinctions the author makes and to any gaps or inconsistencies in the account.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM Project Starters page 1 > Project: Stretching a Rubber Band	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/0f6034e0-a7a5-48f6-8914-a23814448848/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/2ea55c03-c391-4857-a47e-a908d67770fc

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
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LAFS.1112.RST.1.1:	Cite specific textual evidence to support analysis of science and technical texts, attending to important distinctions the author makes and to any gaps or inconsistencies in the account.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Elaborate with STEM > STEM Project Starters page 2 > Project: Legends and Rumors	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/f69bdf55-86d1-4a34-b4de-7e630d1e058b
LAFS.1112.RST.1.2:	Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Elaborate with STEM > STEM Project Starters page 2 > Project: Legends and Rumors	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/f69bdf55-86d1-4a34-b4de-7e630d1e058b
LAFS.1112.RST.1.2:	Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Nuclear Chemistry > Explore > Explore More Resources > Reading Passage: Using Technology to Solve Real - World Problems: Nuclear Energy	https://app.discoveryeducation.com/player/view/assetGuid/6b496fd6-49c5-4399-8405-9692e7803c9b
LAFS.1112.RST.1.2:	Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Cemistry > Acids, Bases and Salts > Explore > Explore More Resources > Reading Passage: Designing Chemical Solutions	https://app.discoveryeducation.com/player/view/assetGuid/66e59c17-5403-4eaa-91c5-ed785940c72e
LAFS.1112.RST.1.3:	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Oxidation - Reduction Reactions > Explore > Explore More Resources > Hands - On Lab: Redox and Rust	https://app.discoveryeducation.com/player/view/assetGuid/30d3c8de-6e77-4330-b061-201934cd518c

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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LAFS.1112.RST.1.3:	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Explore > Explore More Resources > Hands - On Lab: Acid - Base Titrations	https://app.discoveryeducation.com/player/view/assetGuid/53a02dfe-bb6b-4dae-87b5-4fca127a7e14
LAFS.1112.RST.1.3:	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Explore > Explore More Resources > Hands - On Lab: Designing Solutions: Hand Warmers	https://app.discoveryeducation.com/player/view/assetGuid/a1131890-8a57-469f-b713-46c6d6896c93
LAFS.1112.RST.2.4:	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11–12 texts and topics.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM in Action: Applying Chemical Thermodynamics > Reading Passage: Is Energy from a Battery Free?	https://app.discoveryeducation.com/player/view/assetGuid/3a691853-18cc-4e3a-99f4-8961826eb9b1
LAFS.1112.RST.2.4:	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11–12 texts and topics.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Quantum Mechanics > Explore > Explore More Resources > Reading Passage: Schrodinger's Question	https://app.discoveryeducation.com/player/view/assetGuid/82510c2e-4201-49aa-b70c-d6c26a1bb365
LAFS.1112.RST.2.5:	Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Oxidation - Reduction Reactions > Explore > Explore More Resources > Reading Passage: Carbon - - What an Element!	https://app.discoveryeducation.com/player/view/assetGuid/257817b7-50cd-4247-a937-16f3b5647901

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
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LAFS.1112.RST.2.5:	Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Explore > Explore More Resources > Reading Passage: Endothermic Can Be a Good Thing	https://app.discoveryeducation.com/player/view/assetGuid/43897a8e-de7f-4901-96bb-2e548ded1a94
LAFS.1112.RST.2.5:	Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Chemistry and Society > Explore > Explore More Resources > Reading Passage: Impact of Research	https://app.discoveryeducation.com/player/view/assetGuid/a64c399d-0540-404c-b7ba-29df9a000ae4
LAFS.1112.RST.2.6:	Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Organic Chemistry > Explore > Explore More Resources > Reading Passage: Science, Philosophy, and Urea	https://app.discoveryeducation.com/player/view/assetGuid/38c4b163-0911-43d2-bd7e-be70db843f41
LAFS.1112.RST.2.6:	Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM in Action: Applying Chemical Thermodynamics > Reading Passage: Fuel for Thought . . . And Thoughts on Fuel	https://app.discoveryeducation.com/player/view/assetGuid/3b310bfe-4728-4f0e-b6b5-edf29566b5e2
LAFS.1112.RST.2.6:	Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Nuclear Chemistry > Explore > Explore More Resources > Reading Passage: Irradiating Food	https://app.discoveryeducation.com/player/view/assetGuid/d5733a52-ccb0-40c9-8ab2-c64cbc9bb20b

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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LAFS.1112.RST .3.7:	Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Structure of the Periodic Table > Explore > Explore More Resources > Hands - On Activity: Engineering and Design: Designing a System	https://app.discoveryeducation.com/player/view/assetGuid/d889d11b-f296-46c6-8967-bc7157e5d289
LAFS.1112.RST .3.7:	Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Chemical Bonding > Covalent Bonding > Explore > Explore More Resources > Hands - On Lab: Toying with Bonds	https://app.discoveryeducation.com/player/view/assetGuid/4b8ad2bd-5b56-467e-a9bd-6ee24b816dca
LAFS.1112.RST .3.7:	Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Chemical Reactions and Equations > Explore > Explore More Resources > Exploration: Chemical Reactions and Equations	https://app.discoveryeducation.com/player/view/assetGuid/2f63a0f8-4c1c-4e09-b693-f7882c131483
LAFS.1112.RST .3.8:	Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Nuclear Chemistry > Explore > Explore More Resources > Reading Passage: Using Technology to Solve Real - World Problems: Nuclear Energy	https://app.discoveryeducation.com/player/view/assetGuid/6b496fd6-49c5-4399-8405-9692e7803c9b

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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LAFS.1112.RST .3.8:	Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Nuclear Chemistry > Explore > Explore More Resources > Reading Passage: Irradiating Food	https://app.discoveryeducation.com/player/view/assetGuid/d5733a52-ccb0-40c9-8ab2-c64cbc9bb20b
LAFS.1112.RST .3.9:	Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible.	Chemistry - Florida (2017) > Solution Chemistry > Solutions > Explain >	?
LAFS.1112.RST .3.9:	Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible.	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Elaborate with STEM > STEM Project Starters page 3 > Project: Solubility Rules	https://app.discoveryeducation.com/learn/techbook/units/4a465543-a6f9-4a99-b977-6f183ad7dbb4/concepts/f2737116-86ba-4eab-95ed-06ad42a956f5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/1ea47294-2a5b-4099-87e0-e0496069676b
LAFS.1112.RST .3.9:	Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM Project Starters page 1 > Project: Stretching a Rubber Band	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/0f6034e0-a7a5-48f6-8914-a23814448848/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/2ea55c03-c391-4857-a47e-a908d67770fc

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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LAFS.1112.RST.4.10:	By the end of grade 12, read and comprehend science/technical texts in the grades 11–12 text complexity band independently and proficiently.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM in Action: Applying Chemical Thermodynamics > Reading Passage: Is Energy from a Battery Free?	https://app.discoveryeducation.com/player/view/assetGuid/3a691853-18cc-4e3a-99f4-8961826eb9b1
LAFS.1112.RST.4.10:	By the end of grade 12, read and comprehend science/technical texts in the grades 11–12 text complexity band independently and proficiently.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Quantum Mechanics > Explore > Explore More Resources > Reading Passage: Schrodinger's Question	https://app.discoveryeducation.com/player/view/assetGuid/82510c2e-4201-49aa-b70c-d6c26a1bb365
LAFS.1112.SL.1.1:	Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grades 11–12 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Structure of the Periodic Table > Explore > Explore More Resources > Hands - On Activity: Engineering and Design: Designing a System	https://app.discoveryeducation.com/player/view/assetGuid/d889d11b-f296-46c6-8967-bc7157e5d289
LAFS.1112.SL.1.1:	a. Come to discussions prepared, having read and researched material under study; explicitly draw on that preparation by referring to evidence from texts and other research on the topic or issue to stimulate a thoughtful, well-reasoned exchange of ideas.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Periodic Trends > Explain	https://app.discoveryeducation.com/learn/techbook/units/43bee021-a38d-4f6c-8050-25a79d6eec2d/concepts/c29850a7-4557-4bab-bddc-866c2ce9dd35/tabs/0df56444-5400-41eb-a6ce-de52b7efb950

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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LAFS.1112.SL.1.1:	b. Work with peers to promote civil, democratic discussions and decision-making, set clear goals and deadlines, and establish individual roles as needed.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Periodic Trends > Explain > Teacher Guide	https://gtm-media.discoveryeducation.com/videos/DSC/data/pdfs/SciExplan_TG_FINAL_AG.pdf
LAFS.1112.SL.1.1:	c. Propel conversations by posing and responding to questions that probe reasoning and evidence; ensure a hearing for a full range of positions on a topic or issue; clarify, verify, or challenge ideas and conclusions; and promote divergent and creative perspectives	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Periodic Trends > Explain	https://app.discoveryeducation.com/learn/techbook/units/43bee021-a38d-4f6c-8050-25a79d6eec2d/concepts/c29850a7-4557-4bab-bddc-866c2ce9dd35/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
LAFS.1112.SL.1.1:	d. Respond thoughtfully to diverse perspectives; synthesize comments, claims, and evidence made on all sides of an issue; resolve contradictions when possible; and determine what additional information or research is required to deepen the investigation or complete the task.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Periodic Trends > Explain > Teacher Guide	https://gtm-media.discoveryeducation.com/videos/DSC/data/pdfs/SciExplan_TG_FINAL_AG.pdf
LAFS.1112.SL.1.1	Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grades 11–12 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Electrochemistry > Elaborate with STEM > STEM Project Starters page 2 > Project: Fuel Cell or Battery?	https://app.discoveryeducation.com/learn/techbook/units/718950d7-60b8-4f04-b60c-6704e9c26871/concepts/3a91e637-f48d-471a-b1c2-983393c3c8f6/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/596b91b0-2229-4146-9704-97a7637e5080

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
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LAFS.1112.SL.1.2:	Integrate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, orally) in order to make informed decisions and solve problems, evaluating the credibility and accuracy of each source and noting any discrepancies among the data.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Chemistry and Society > Explore > Explore More Resources > Hands - On Lab: Interactions of Chemistry and Society	https://app.discoveryeducation.com/player/view/assetGuid/99f3004b-5e2a-4323-baa5-b1aba6c26253
LAFS.1112.SL.1.2:	Integrate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, orally) in order to make informed decisions and solve problems, evaluating the credibility and accuracy of each source and noting any discrepancies among the data.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Chemical Equilibrium > Elaborate with STEM > STEM in Action: Applying Chemical Equilibrium	https://app.discoveryeducation.com/learn/techbook/units/5b76a189-a2e9-4cbf-a9c9-b375e45d9887/concepts/684c4ac6-91f5-4f24-9877-71b2c7cf64bb/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
LAFS.1112.SL.1.2:	Integrate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, orally) in order to make informed decisions and solve problems, evaluating the credibility and accuracy of each source and noting any discrepancies among the data.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Chemical Equilibrium > Elaborate with STEM > STEM Project Starters page 3 > Project: Conditions Affecting Smog	https://app.discoveryeducation.com/learn/techbook/units/5b76a189-a2e9-4cbf-a9c9-b375e45d9887/concepts/684c4ac6-91f5-4f24-9877-71b2c7cf64bb/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/6726dab9-b0e1-4054-b119-229ed0d34196

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LAFS.1112.SL.1.3:	Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, assessing the stance, premises, links among ideas, word choice, points of emphasis, and tone used.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Electrochemistry > Elaborate with STEM > STEM Project Starters page 2 > Project: Fuel Cell or Battery?	https://app.discoveryeducation.com/learn/techbook/units/718950d7-60b8-4f04-b60c-6704e9c26871/concepts/3a91e637-f48d-471a-b1c2-983393c3c8f6/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/596b91b0-2229-4146-9704-97a7637e5080
LAFS.1112.SL.1.3:	Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, assessing the stance, premises, links among ideas, word choice, points of emphasis, and tone used.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Nuclear Chemistry > Explore > Explore More Resources > Reading Passage: Using Technology to Solve Real - World Problems: Nuclear Energy	https://app.discoveryeducation.com/player/view/assetGuid/6b496fd6-49c5-4399-8405-9692e7803c9b
LAFS.1112.SL.1.3:	Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, assessing the stance, premises, links among ideas, word choice, points of emphasis, and tone used.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Nuclear Chemistry > Explore > Explore More Resources > Reading Passage: Irradiating Food	https://app.discoveryeducation.com/player/view/assetGuid/d5733a52-ccb0-40c9-8ab2-c64cbc9bb20b
LAFS.1112.SL.2.4:	Present information, findings, and supporting evidence, conveying a clear and distinct perspective, such that listeners can follow the line of reasoning, alternative or opposing perspectives are addressed, and the organization, development, substance, and style are appropriate to purpose, audience, and a range of formal and informal tasks.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Electrochemistry > Elaborate with STEM > STEM Project Starters page 2 > Project: Fuel Cell or Battery?	https://app.discoveryeducation.com/learn/techbook/units/718950d7-60b8-4f04-b60c-6704e9c26871/concepts/3a91e637-f48d-471a-b1c2-983393c3c8f6/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/596b91b0-2229-4146-9704-97a7637e5080

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
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LAFS.1112.SL.2.4:	Present information, findings, and supporting evidence, conveying a clear and distinct perspective, such that listeners can follow the line of reasoning, alternative or opposing perspectives are addressed, and the organization, development, substance, and style are appropriate to purpose, audience, and a range of formal and informal tasks.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Reaction Rate > Elaborate with STEM > STEM Project Starters page 3 > Project: Speed It Up	https://app.discoveryeducation.com/learn/techbook/units/5b76a189-a2e9-4cbf-a9c9-b375e45d9887/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/12222234-8c42-4f4a-9f4a-9c5e7ed53f9d
LAFS.1112.SL.2.4:	Present information, findings, and supporting evidence, conveying a clear and distinct perspective, such that listeners can follow the line of reasoning, alternative or opposing perspectives are addressed, and the organization, development, substance, and style are appropriate to purpose, audience, and a range of formal and informal tasks.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Chemical Equilibrium > Elaborate with STEM > STEM in Action: Applying Chemical Equilibrium	https://app.discoveryeducation.com/learn/techbook/units/5b76a189-a2e9-4cbf-a9c9-b375e45d9887/concepts/684c4ac6-91f5-4f24-9877-71b2c7cf64bb/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
LAFS.1112.SL.2.5:	Make strategic use of digital media (e.g., textual, graphical, audio, visual, and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Chemical and Physical Properties and Changes > Elaborate with STEM > STEM Project Starters page 1 > Project: Molecular Gastronomy	https://app.discoveryeducation.com/learn/techbook/units/70d90782-228b-45de-a951-82aaf0205aa6/concepts/b7e0a807-e678-4688-8ca0-90e35c9a55c4/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/dce5cadd-1835-430a-a10d-34f93e735485

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
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COURSE STANDARDS/BENCHMARKS (Form IM7)

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LAFS.1112.SL.2.5:	Make strategic use of digital media (e.g., textual, graphical, audio, visual, and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Electrochemistry > Elaborate with STEM > STEM Project Starters page 2 > Project: Fuel Cell or Battery?	https://app.discoveryeducation.com/learn/techbook/units/718950d7-60b8-4f04-b60c-6704e9c26871/concepts/3a91e637-f48d-471a-b1c2-983393c3c8f6/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/596b91b0-2229-4146-9704-97a7637e5080
LAFS.1112.SL.2.5:	Make strategic use of digital media (e.g., textual, graphical, audio, visual, and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Gas Laws > Elaborate with STEM > STEM Project Starters page 1 > Project: Want to Dive?	https://app.discoveryeducation.com/learn/techbook/units/70d90782-228b-45de-a951-82aaf0205aa6/concepts/39d769e3-3c50-44df-9e07-f03562e99e22/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/d07f3e28-7503-4015-a271-02bb01656654
LAFS.910.WHST.1.1:	c. Use words, phrases, and clauses to link the major sections of the text, create cohesion, and clarify the relationships between claim(s) and reasons, between reasons and evidence, and between claim(s) and counterclaims.	Chemistry - Florida (2017)>The Periodic Table, Bonding and Chemical Reactions>Chemical Bonding>Ionic Bonding>Explain> Scientific Explanation>Teacher's Guide.	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
LAFS.910.WHST.1.1:	d. Establish and maintain a formal style and objective tone while attending to the norms and conventions of the discipline in which they are writing.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Electrochemistry > Explain > Explain Question > Teacher Guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
LAFS.910.WHST.1.1:	e. Provide a concluding statement or section that follows from or supports the argument presented.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Periodic Trends > Explore > Explore More Resources > Hands - On Lab: Periodic Trends	https://app.discoveryeducation.com/player/view/assetGuid/2b623855-9e8a-49bc-8bab-12d2c2fec185

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
COURSE STANDARDS/BENCHMARKS (Form IM7)

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LAFS.910.WHST.1.2:	f. Provide a concluding statement or section that follows from and supports the information or explanation presented (e.g., articulating implications or the significance of the topic).	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Periodic Trends > Explore > Explore More Resources > Hands - On Lab: Periodic Trends	https://app.discoveryeducation.com/player/view/assetGuid/2b623855-9e8a-49bc-8bab-12d2c2fec185
LAFS.1112.WHST.1.1:	Write arguments focused on discipline-specific content.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Nuclear Chemistry > Elaborate with STEM > STEM Project Starters page 2 > Project: Nuclear Chemistry - - More Than Just Power Plants	https://app.discoveryeducation.com/learn/techbook/units/95916cc9-2a76-48f1-8a10-5486d0352b3c/concepts/1558cc01-0d34-4cc7-ae9d-61a5687446dc/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/12fcf01c-c3c3-4314-b2f3-14cd59108438
LAFS.1112.WHST.1.1:	c. Use words, phrases, and clauses as well as varied syntax to link the major sections of the text, create cohesion, and clarify the relationships between claim(s) and reasons, between reasons and evidence, and between claim(s) and counterclaims.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Electrochemistry > Explain	https://app.discoveryeducation.com/learn/techbook/units/718950d7-60b8-4f04-b60c-6704e9c26871/concepts/3a91e637-f48d-471a-b1c2-983393c3c8f6/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
LAFS.1112.WHST.1.1:	d. Establish and maintain a formal style and objective tone while attending to the norms and conventions of the discipline in which they are writing.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Electrochemistry > Explain > Explain Question > Teacher Guide	https://gtm-media.discoveryeducation.com/videos/DSC/data/pdfs/SciExplan_TG_FINAL_AG.pdf
LAFS.1112.WHST.1.1:	e. Provide a concluding statement or section that follows from or supports the argument presented.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Reaction Rate > Explore > Explore More Resources > Hands - On Lab: Iodine Clock Reaction	https://app.discoveryeducation.com/player/view/assetGuid/2d917a97-dd42-4fce-8d71-66ba168315a6
LAFS.1112.WHST.1.1	Write arguments focused on discipline-specific content.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Electrochemistry > Elaborate with STEM > STEM Project Starters page 2 > Project: Fuel Cell or Battery?	https://app.discoveryeducation.com/learn/techbook/units/718950d7-60b8-4f04-b60c-6704e9c26871/concepts/3a91e637-f48d-471a-b1c2-983393c3c8f6/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/596b91b0-2229-4146-9704-97a7637e5080

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LAFS.1112.WHST.1.2:	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Parts of the Atom > Elaborate with STEM > STEM Project Starters page 2 > Project: Artificially Made	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/b6933f2e-81d6-4b36-8f1f-0bf8399d2863/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/4b521cb6-1713-45f4-9289-7317736a07e0
LAFS.1112.WHST.1.2:	d. Use precise language, domain-specific vocabulary and techniques such as metaphor, simile, and analogy to manage the complexity of the topic; convey a knowledgeable stance in a style that responds to the discipline and context as well as to the expertise of likely readers.	Chemistry - Florida (2017)>The Periodic Table, Bonding and Chemical Reactions>The Periodic Tableg>Periodic Trends>Explain> Scientific Explanation>Teacher's Guide.	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
LAFS.1112.WHST.1.2:	e. Provide a concluding statement or section that follows from and supports the information or explanation provided (e.g., articulating implications or the significance of the topic).	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Explain	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/324a5833-391b-4a2e-b3f3-7a7d19fa460b/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
LAFS.1112.WHST.1.2	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM Project Starters page 2 > Project: Revving the Engine	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/0f6034e0-a7a5-48f6-8914-a23814448848/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/a10657d5-c3cf-4cac-b724-107ca477f12c
LAFS.1112.WHST.1.2	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Quantum Mechanics > Elaborate with STEM > STEM Project Starters page 3 > Project: Looking at Lasers	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/a425771a-e0bf-493c-ae71-35ae2e92d333/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/bc943ad0-4954-48ae-8698-6fdff93b01ca

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LAFS.1112.WHST.2.4:	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM Project Starters page 2 > Project: Revving the Engine	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/0f6034e0-a7a5-48f6-8914-a23814448848/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/a10657d5-c3cf-4cac-b724-107ca477f12c
LAFS.1112.WHST.2.4:	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Gas Laws > Elaborate with STEM > STEM Project Starters page 1 > Project: Want to Dive?	https://app.discoveryeducation.com/learn/techbook/units/70d90782-228b-45de-a951-82aaf0205aa6/concepts/39d769e3-3c50-44df-9e07-f03562e99e22/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/d07f3e28-7503-4015-a271-02bb01656654
LAFS.1112.WHST.2.4:	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Reaction Rate > Elaborate with STEM > STEM Project Starters page 3 > Project: Speed It Up	https://app.discoveryeducation.com/learn/techbook/units/5b76a189-a2e9-4cbf-a9c9-b375e45d9887/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/12222234-8c42-4f4a-9f4a-9c5e7ed53f9d
LAFS.1112.WHST.2.5:	Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM Project Starters page 2 > Project: Revving the Engine	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/0f6034e0-a7a5-48f6-8914-a23814448848/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/a10657d5-c3cf-4cac-b724-107ca477f12c
LAFS.1112.WHST.2.5:	Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Parts of the Atom > Elaborate with STEM > STEM Project Starters page 2 > Project: Artificially Made	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/b6933f2e-81d6-4b36-8f1f-0bf8399d2863/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/4b521cb6-1713-45f4-9289-7317736a07e0
LAFS.1112.WHST.2.5:	Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Elaborate with STEM > STEM Project Starters page 1 > Project: Behind the Scenes at CERN	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/74565e51-9014-4095-ace9-07d8a926750f

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
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LAFS.1112.WHST.2.6:	Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to ongoing feedback, including new arguments or information.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Elaborate with STEM > STEM Project Starters page 3 > Project: Electronics Evolution	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/8ac82b0c-8274-4783-8679-939336509e74
LAFS.1112.WHST.3.7:	Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Elaborate with STEM > STEM Project Starters page 1 > Project: Behind the Scenes at CERN	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/74565e51-9014-4095-ace9-07d8a926750f
LAFS.1112.WHST.3.7:	Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.	Chemistry - Florida (2017) > Applications of Chemical Principles > Oxidation - Reduction Reactions and Electrochemistry > Oxidation - Reduction Reactions > Elaborate with STEM > STEM in Action: Applying Oxidation - Reduction Reactions	https://app.discoveryeducation.com/learn/techbook/units/718950d7-60b8-4f04-b60c-6704e9c26871/concepts/0f47d706-15fb-42d3-95f0-c4102d48543b/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f

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LAFS.1112.WHST.3.7:	Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM Project Starters page 2 > Project: Revving the Engine	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/0f6034e0-a7a5-48f6-8914-a23814448848/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/a10657d5-c3cf-4cac-b724-107ca477f12c
LAFS.1112.WHST.3.8:	Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the specific task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Elaborate with STEM > STEM Project Starters page 1 > Project: Behind the Scenes at CERN	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/74565e51-9014-4095-ace9-07d8a926750f
LAFS.1112.WHST.3.8:	Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the specific task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Chemical Reactions and Equations > Elaborate with STEM > STEM Project Starters page 1 > Project: How Can You Scrub a Smokestack?	https://app.discoveryeducation.com/learn/techbook/units/445980e9-f5a8-40e4-a6ee-0610868b3a36/concepts/95b34eaf-0130-42b8-89dd-0d0cbf276c1e/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/de5856ee-b337-4df9-95f6-35a36a28a5d0

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LAFS.1112.WHST.3.8:	Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the specific task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM Project Starters page 2 > Project: Revving the Engine	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/0f6034e0-a7a5-48f6-8914-a23814448848/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/a10657d5-c3cf-4cac-b724-107ca477f12c
LAFS.1112.WHST.3.9:	Draw evidence from informational texts to support analysis, reflection, and research.	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Chemistry and Society > Explore > p 1 > Assignment: Check for Understanding: Use of Resources	https://app.discoveryeducation.com/player/view/assetGuid/50c2ca24-b0fd-464d-acfa-5225bbf3b3ae
LAFS.1112.WHST.3.9:	Draw evidence from informational texts to support analysis, reflection, and research.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Reaction Rate > Elaborate with STEM > STEM Project Starters page 3 > Project: Speed It Up	https://app.discoveryeducation.com/learn/techbook/units/5b76a189-a2e9-4cbf-a9c9-b375e45d9887/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/12222234-8c42-4f4a-9f4a-9c5e7ed53f9d
LAFS.1112.WHST.3.9:	Draw evidence from informational texts to support analysis, reflection, and research.	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Equilibrium and Reaction Rate > Chemical Equilibrium > Elaborate with STEM > STEM Project Starters page 3 > Project: Conditions Affecting Smog	https://app.discoveryeducation.com/learn/techbook/units/5b76a189-a2e9-4cbf-a9c9-b375e45d9887/concepts/684c4ac6-91f5-4f24-9877-71b2c7cf64bb/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/6726dab9-b0e1-4054-b119-229ed0d34196
LAFS.1112.WHST.4.10:	Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.	Chemistry - Florida (2017) > Introduction to Chemistry > Atomic Theory > Development of the Atomic Theory > Elaborate with STEM > STEM Project Starters page 1 > Project: Behind the Scenes at CERN	https://app.discoveryeducation.com/learn/techbook/units/3d545569-08c3-46a5-9d1b-d272643aa503/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/74565e51-9014-4095-ace9-07d8a926750f

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LAFS.1112.WHST.4.10:	Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Chemical Thermodynamics > Elaborate with STEM > STEM Project Starters page 2 > Project: Revving the Engine	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/0f6034e0-a7a5-48f6-8914-a23814448848/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/a10657d5-c3cf-4cac-b724-107ca477f12c
LAFS.1112.WHST.4.10:	Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and States of Matter > Gas Laws > Elaborate with STEM > STEM Project Starters page 1 > Project: Want to Dive?	https://app.discoveryeducation.com/learn/techbook/units/70d90782-228b-45de-a951-82aaf0205aa6/concepts/39d769e3-3c50-44df-9e07-f03562e99e22/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/d07f3e28-7503-4015-a271-02bb01656654
MAFS.912.F-IF.2.4:	For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity. ★	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Elaborate with STEM > STEM in Action: Acids, Bases, and Salts	https://app.discoveryeducation.com/learn/techbook/units/4a465543-a6f9-4a99-b977-6f183ad7dbb4/concepts/f2737116-86ba-4eab-95ed-06ad42a956f5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f

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MAFS.912.F-IF.2.4:	For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity. ★	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Explore > Explore More Resources > Activity: Phase Diagram Problems	https://app.discoveryeducation.com/player/view/assetGuid/e84a6e4f-6a92-4f68-967d-b55d7e91bdcc
MAFS.912.F-IF.3.7:	Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases. ★	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Explore > Explore More Resources > Hands - On Lab: Acid - Base Titrations	https://app.discoveryeducation.com/player/view/assetGuid/53a02dfe-bb6b-4dae-87b5-4fca127a7e14
MAFS.912.F-IF.3.7:	Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases. ★	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Structure of the Periodic Table > Explore > Explore More Resources > HOL: Structure of the Periodic Table	https://app.discoveryeducation.com/player/view/assetGuid/396d8dec-c1ed-43d1-b2ff-c2ee0fc34a07
MAFS.912.F-IF.3.7:	a. Graph linear and quadratic functions and show intercepts, maxima, and minima.	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Explore > Explore More Resources > Hands - On Lab: Acid - Base Titrations	https://app.discoveryeducation.com/player/view/assetGuid/53a02dfe-bb6b-4dae-87b5-4fca127a7e14
MAFS.912.F-IF.3.7:	b. Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions.	Chemistry - Florida (2017) > Equilibrium and Reaction Rate > Chemical Equilibrium > Explore > Core Interactive Text page 1 > TEI: Reversible Reactions	https://app.discoveryeducation.com/learn/techbook/units/5b76a189-a2e9-4cbf-a9c9-b375e45d9887/concepts/684c4ac6-91f5-4f24-9877-71b2c7cf64bb/tabs/759da9a7-2edf-4cde-9515-7081ca990764

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MAFS.912.F-IF.3.7:	c. Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior.	Chemistry - Florida (2017) > Equilibrium and Reaction Rate > Chemical Equilibrium > Explore > Core Interactive Text page 1 > TEI: Graphing a Polynomial	https://app.discoveryeducation.com/learn/techbook/units/5b76a189-a2e9-4cbf-a9c9-b375e45d9887/concepts/684c4ac6-91f5-4f24-9877-71b2c7cf64bb/tabs/759da9a7-2edf-4cde-9515-7081ca990764
MAFS.912.F-IF.3.7:	d. Graph rational functions, identifying zeros and asymptotes when suitable factorizations are available, and showing end behavior.	Chemistry - Florida (2017) > The Chemistry Around Us > Chemistry and Society > Elaborate with STEM > STEM Project Starter p3 > A Spin on Asprin	https://app.discoveryeducation.com/learn/techbook/units/95916CC9-2A76-48F1-8A10-5486D0352B3C/concepts/008077A4-52BB-4302-A7FF-86165E90D85B/tabs/054D49D8-D8F5-4203-B276-19E25B56CC5F/pages/DE870E72-2005-400D-A3A6-6377A991D366
MAFS.912.F-IF.3.7:	e. Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude, and using phase shift.	Chemistry - Florida (2017) > Introduction to Chemistry > Properties and State of Matter > Gas Laws > Explore > Core Interactive Text p6 > TEI: Graphing Vapor Pressure	https://app.discoveryeducation.com/learn/techbook/units/70d90782-228b-45de-a951-82aaf0205aa6/concepts/39d769e3-3c50-44df-9e07-f03562e99e22/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/1df664ed-61a2-4422-8fb8-e872e88d4c3f
MAFS.912.F-IF.3.7	Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases. ★	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Explore > Explore More Resources > Hands - On Lab: Planning Your Own Acid - Base Titration Using Probeware	https://app.discoveryeducation.com/player/view/assetGuid/20067b3f-2d13-4bc4-8768-455a1ddf7dc2
MAFS.912.F-IF.3.7	Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases. ★	Chemistry - Florida (2017) > Applications of Chemical Principles > The Chemistry Around Us > Nuclear Chemistry > Explore > Explore More Resources > Hands - On Lab: Half - Life	https://app.discoveryeducation.com/player/view/assetGuid/ed77b81f-e971-4290-925e-59860e4f4337

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COURSE STANDARDS/BENCHMARKS (Form IM7)

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.912.N-Q.1.1:	Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays. ★	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Mathematics of Formulas and Equations > Explore > p 3 > Activity: Problem Solving Worksheet: Mole Conversions	https://app.discoveryeducation.com/player/view/assetGuid/95778460-bfb0-4370-b7a6-5df046885062
MAFS.912.N-Q.1.1:	Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays. ★	Chemistry - Florida (2017) > Applications of Chemical Principles > Thermochemistry and Thermodynamics > Thermochemistry > Elaborate with STEM > STEM Project Starters page 2 > Project: The New Fuel	https://app.discoveryeducation.com/learn/techbook/units/ff0548ad-b3bd-4d5d-bd21-809948af9982/concepts/324a5833-391b-4a2e-b3f3-7a7d19fa460b/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/29998fc2-cabe-49b2-ae64-ab6393da2257
MAFS.912.N-Q.1.3:	Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. ★	Chemistry - Florida (2017) > Applications of Chemical Principles > Solution Chemistry > Acids, Bases, and Salts > Elaborate with STEM > STEM Project Starters page 1 > Project: Acids and Bases Around You	https://app.discoveryeducation.com/learn/techbook/units/4a465543-a6f9-4a99-b977-6f183ad7dbb4/concepts/f2737116-86ba-4eab-95ed-06ad42a956f5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/f80eaf92-b991-44d9-a013-6c2e9d18b6dd
MAFS.912.S-ID.1.1:	Represent data with plots on the real number line (dot plots, histograms, and box plots). ★	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Periodic Trends > Explore > Explore More Resources > Exploration: Periodic Trends	https://app.discoveryeducation.com/player/view/assetGuid/fc88ce4c-9fa1-468d-a0ef-a3235dee5a36
MAFS.912.S-ID.1.2:	Use statistics appropriate to the shape of the data distribution to compare center (median, mean) and spread (interquartile range, standard deviation) of two or more different data sets. ★	Chemistry - Florida (2017) > Introduction to Chemistry > Scientific Processes > Using Scientific Methods > Explore > Core Interactive Text p7	https://app.discoveryeducation.com/learn/techbook/units/87c7783f-c78f-447c-a2a4-2d1e92cc85a1/concepts/a7e0fb6c-68e0-4960-9401-6319e7e30be5/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/24667d76-4df4-4522-a8a0-3ea208d1c7df

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MAFS.912.S-ID.1.2:	Use statistics appropriate to the shape of the data distribution to compare center (median, mean) and spread (interquartile range, standard deviation) of two or more different data sets. ★	Chemistry - Florida (2017) > Introduction to Chemistry > Scientific Processes > Using Scientific Methods > Explore > Explore More Resources > HOA: Comparing Two Data Sets	https://app.discoveryeducation.com/player/view/assetGuid/64345108-00a8-49d9-856d-27977701e88a
MAFS.912.S-ID.1.3:	Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers). ★	Chemistry - Florida (2017) > Introduction to Chemistry > Scientific Processes > Using Scientific Methods > Explore > Explore More Resources > HOA: Comparing Two Data Sets	https://app.discoveryeducation.com/player/view/assetGuid/64345108-00a8-49d9-856d-27977701e88a
MAFS.912.S-ID.1.4:	Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve. ★	Chemistry - Florida (2017) > Introduction to Chemistry > Scientific Processes > Using Scientific Methods > Explore > Explore More Resources > HOA: The Standard Normal Curve	https://app.discoveryeducation.com/player/view/assetGuid/825a2f66-cb8f-4869-944a-8b11a1c278bd

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MAFS.912.S-ID.1.4:	Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve. ★	Chemistry - Florida (2017) > Introduction to Chemistry > Scientific Processes > Using Scientific Methods > Explore > Core Interactive Text p7	https://app.discoveryeducation.com/learn/techbook/units/87c7783f-c78f-447c-a2a4-2d1e92cc85a1/concepts/a7e0fb6c-68e0-4960-9401-6319e7e30be5/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/24667d76-4df4-4522-a8a0-3ea208d1c7df
MAFS.912.S-ID.1.4:	Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve. ★	Chemistry - Florida (2017) > Introduction to Chemistry > Scientific Processes > Using Scientific Methods > Explore > Explore More Resources > HOA: Comparing Two Data Sets	https://app.discoveryeducation.com/player/view/assetGuid/64345108-00a8-49d9-856d-27977701e88a
MAFS.912.S-ID.2.5:	Summarize categorical data for two categories in two-way frequency tables. Interpret relative frequencies in the context of the data (including joint, marginal, and conditional relative frequencies). Recognize possible associations and trends in the data. ★	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > Representing Chemical Substances > Mathematics of Formulas and Equations > Elaborate with STEM > STEM Project Starter p 3 > No Pain-No Data	https://app.discoveryeducation.com/learn/techbook/units/445980e9-f5a8-40e4-a6ee-0610868b3a36/concepts/8ffdf1c7-afc6-43a2-a53a-0b3c1aa92f6a/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/2CA3C615-64AF-45B4-9F63-E46F09FA52D0

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MAFS.912.S-ID.2.6:	Represent data on two quantitative variables on a scatter plot, and describe how the variables are related. ★	Chemistry - Florida (2017) > The Periodic Table, Bonding, and Chemical Reactions > The Periodic Table > Structure of the Periodic Table > Explore > Explore More Resources > Hands - On Lab: Structure of the Periodic Table	https://app.discoveryeducation.com/player/view/assetGuid/65bc5d90-c223-4a30-87d0-a9e61397a24d
MAFS.912.S-ID.2.6:	a. Fit a function to the data; use functions fitted to data to solve problems in the context of the data. Use given functions or choose a function suggested by the context. Emphasize linear, and exponential models.	Chemistry - Florida (2017) > The Chemistry Around Us > Chemistry and Society > Elaborate with STEM > STEM Project Starter p3 > A Spin on Asprin	https://app.discoveryeducation.com/learn/techbook/units/95916CC9-2A76-48F1-8A10-5486D0352B3C/concepts/008077A4-52BB-4302-A7FF-86165E90D85B/tabs/054D49D8-D8F5-4203-B276-19E25B56CC5F/pages/DE870E72-2005-400D-A3A6-6377A991D366
MAFS.912.S-ID.2.6:	b. Informally assess the fit of a function by plotting and analyzing residuals.	Chemistry - Florida (2017) > Introduction to Chemistry > Scientific Processes > Measurements > Elaborate with STEM > STEM Project Starter p2 > Float or Sink?	https://app.discoveryeducation.com/learn/techbook/units/87c7783f-c78f-447c-a2a4-2d1e92cc85a1/concepts/e7a8b2e8-aa3e-4b9f-bd01-681c19bb754c/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/531D8B4D-5C90-461F-B5BF-90FECB94FD34
MAFS.912.S-ID.2.6:	c. Fit a linear function for a scatter plot that suggests a linear association.	Chemistry - Florida (2017) > Introduction to Chemistry > Scientific Processes > Measurements > Elaborate with STEM > STEM Project Starter p2 > Float or Sink?	https://app.discoveryeducation.com/learn/techbook/units/87c7783f-c78f-447c-a2a4-2d1e92cc85a1/concepts/e7a8b2e8-aa3e-4b9f-bd01-681c19bb754c/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/531D8B4D-5C90-461F-B5BF-90FECB94FD34