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

SUBMISSION TITLE: Physical Science -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	
SC.912.E.7.1	Analyze the movement of matter and energy through the different biogeochemical cycles, including water and carbon.	Water Chemical Properties and Changes > Water and Solutions > Water > Explore> Core Interactive Text p2 > The Water Cycle	https://app.discoveryeducation.com/learn/techbook/units/23456a3b-039b-4643-8911-e94ee5c5e112/concepts/2225f6bb-6cb9-411d-b24c-51570e87001e/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/43b80e21-9f5b-4ba7-b5c9-8227c7a45cff
SC.912.E.7.1	Analyze the movement of matter and energy through the different biogeochemical cycles, including water and carbon.	Energy for Life Energy, Force, and Motion > Energy > Energy for Life > Explore > Core Interactive Text p5> What is the role of Photosynthesis, Respiration in the Carbon Cycle	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/5b594c6a-64a0-4796-b2c1-13ebccbddac1/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/3fc596bb-3aff-4115-b100-a89fbce8e4f8
SC.912.L.18.7	Identify the reactants, products, and basic functions of photosynthesis.	Energy for Life Energy, Force, and Motion > Energy > Energy for Life > Explore > Core Interactive Text p5> What is the role of Photosynthesis, Respiration in the Carbon Cycle	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/5b594c6a-64a0-4796-b2c1-13ebccbddac1/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/3fc596bb-3aff-4115-b100-a89fbce8e4f8
SC.912.L.18.8	Identify the reactants, products, and basic functions of aerobic and anaerobic cellular respiration.	Energy for Life Energy, Force, and Motion > Energy > Energy > Energy for Life > Explore > Core Interactive Text p5> What is the role of Photosynthesis, Respiration in the Carbon Cycle	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/5b594c6a-64a0-4796-b2c1-13ebccbddac1/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/3fc596bb-3aff-4115-b100-a89fbce8e4f8
ELD.K12.ELL.SC.1	English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.	Thermochemistry Chemical Properties and Changes > Chemical Reactions and Equations > Thermochemistry>Model Lesson	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/324a5833-391b-4a2e-b3f3-7a7d19fa460b/lesson/sections/d2e18966-f429-4694-931d-3276d8c500f8

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
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ELD.K12.ELL.SC.1	English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.	Solutions Chemical Properties and Changes > Water and Solutions> Solutions>Explore>Explore More resources: English Language Proficiency Activity: Solutions	https://app.discoveryeducation.com/player/view/assetGuid/7f4e79c1-bf28-4bdb-b49a-c021ce2777cb
ELD.K12.ELL.SI.1	English language learners communicate for social and instructional purposes within the school setting.	Electric Circuits Matter > Electromagnetism> Electric Circuits > Explain > Teacher Guide >Sharing Scientific Explanations	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
LAFS.910.RST.1.1	Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.	Nuclear Chemistry Matter > Understanding Atoms > Nuclear Chemistry>Explore>Explore More Resources>Reading Passage Irradiating Food	https://app.discoveryeducation.com/player/view/assetGuid/d5733a52-ccb0-40c9-8ab2-c64cbc9bb20b
LAFS.910.RST.1.1	Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.	Newton's Third Law of Motion Energy, Force, and Motion > Motion >Newton's Third Law of Motion>Explain	https://app.discoveryeducation.com/learn/techbook/units/7c19f365-b504-461a-b342-c4cc9b3be2c5/concepts/67e7fb21-b9aa-4454-9eb9-0b5ff7732820/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
LAFS.910.RST.1.2	Determine the central ideas or conclusions of a text; trace the texts explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.	Wave Characteristics Energy, Force, and Motion > Energy > Wave Characteristics >Explore >Explore More Resources >Reading Passage > Particle or Wave	https://app.discoveryeducation.com/player/view/assetguid/a27feeb1-f554-41ec-bff1-5393f9e09ea4
LAFS.910.RST.1.3	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.	Work and Power Energy, Force, and Motion > Motion > Work and Power>Explore>Explore More Resources>Hands-On Lab: Mechanical Advantage	https://app.discoveryeducation.com/player/view/assetGuid/877e4eac-0a4a-4d73-8648-8a413ba4ebd4

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LAFS.910.RST.2.4	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 9-10 texts and topics.	Work and Power Energy, Force, and Motion > Motion > Work and Power>Explore>Core Interactive Text p1 & 2	https://app.discoveryeducation.com/learn/techbook/units/7c19f365-b504-461a-b342-c4cc9b3be2c5/concepts/dc97221c-c184-4f6c-ad72-d9164cec9c3a/tabs/759da9a7-2edf-4cde-9515-7081ca990764
LAFS.910.RST.2.5	Analyze the structure of the relationships among concepts in a text, including relationships among key terms (e.g., force, friction, reaction force, energy).	Applying Newton's Laws of Motion Energy, Force, and Motion > Motion > Applying Newton's Laws of Motion>Explore>Core Interactive Text p1>Motion at High Speeds.	https://app.discoveryeducation.com/learn/techbook/units/7c19f365-b504-461a-b342-c4cc9b3be2c5/concepts/f8b9cf4f-b4f7-4b98-81f5-072a91ada957/tabs/759da9a7-2edf-4cde-9515-7081ca990764
LAFS.910.RST.2.6	Analyze the authors purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, defining the question the author seeks to address.	Development of the Atomic Theory Matter > Understanding Atoms > Development of the Atomic Theory>Explore>Explore More resources>STEM Project: Legends and Rumors	https://app.discoveryeducation.com/learn/techbook/units/8e63b3c8-2c95-4b06-b74d-0e4c2f99e56c/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/F69BDF55-86D1-4A34-B4DE-7E630D1E058B
LAFS.910.RST.3.7	Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.	Newton's Second Law of Motion Energy, Force and Motion > Motion >Newton's Second Law of Motion>Evaluate>Constructed Response: Newton's Second Law of Motion: Using Charts	https://app.discoveryeducation.com/player/view/assetGuid/5eba8b5e-d3f2-4c6f-b5ac-24876dd48d87
LAFS.910.RST.3.7	Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.	Solving Motion Problems Energy, Force, and Motion > Motion > Solving Motion Problems >Evaluate> Constructed Response: Solving Motion Problems- Charts	https://app.discoveryeducation.com/player/view/assetGuid/9f940986-1cd2-4668-8898-a19e84f3c016

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LAFS.910.RST.3.7	Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods>Evaluate>Constructed response: Using Scientific Methods: Drawing Inferences from Promotional Material for Products	https://app.discoveryeducation.com/player/view/assetGuid/c682502a-5e7f-4a63-9381-14eac3e94ec7
LAFS.910.RST.3.8	Assess the extent to which the reasoning and evidence in a text support the authors claim or a recommendation for solving a scientific or technical problem.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods >Evaluate >Constructed Response: Using the Scientific Method	https://app.discoveryeducation.com/core:assessment/science?assessmentGuid=9d7f0b8c-d291-4de3-a74d-2a07c9b408a8&conceptGuid=a7e0fb6c-68e0-4960-9401-6319e7e30be5
SC.912.N.1.4	Identify sources of information and assess their reliability according to the strict standards of scientific investigation.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods > Explore > p2 > Researching, evaluating and referencing sources	https://app.discoveryeducation.com/learn/techbook/units/95ab1822-ff91-4d7c-aa6b-8fdc5d517a35/concepts/a7e0fb6c-68e0-4960-9401-6319e7e30be5/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/bfd3829c-98c7-482a-bd8a-e5425e7fd864
LAFS.910.RST.3.8	Assess the extent to which the reasoning and evidence in a text support the authors claim or a recommendation for solving a scientific or technical problem.	Classification of Matter Matter > Behavior of Matter > Classification of Matter > Explore > Explore More Resources > Reading Passage: In the Dark About Dark Matter.	https://app.discoveryeducation.com/player/view/assetGuid/65827e4f-dfb7-4ae6-afbf-be1c370b9f8c
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.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Method s> Explore > Explore More Resources > Reading Passage: Fusion Confusion	https://app.discoveryeducation.com/player/view/assetGuid/2f20b24d-262d-4084-9afe-694655aea2aa

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LAFS.910.RST.3.9	Compare and contrast findings presented in a text to those from other sources (including their own experiments), noting when the findings support or contradict previous explanations or accounts.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate>Explain	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
LAFS.910.RST.4.10	By the end of grade 10, read and comprehend science/technical texts in the grades 910 text complexity band independently and proficiently.	Work and Power Energy, Force, and Motion > Motion > Work and Power > Explore > Core Interactive Text p1 & 2	https://app.discoveryeducation.com/learn/techbook/units/7c19f365-b504-461a-b342-c4cc9b3be2c5/concepts/dc97221c-c184-4f6c-ad72-d9164cec9c3a/tabs/759da9a7-2edf-4cde-9515-7081ca990764
LAFS.910.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 9-10 topics, texts, and issues, building on others ideas and expressing their own clearly and persuasively. 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. Work with peers to set rules for collegial discussions and decision-making (e.g., informal consensus, taking votes on key issues, presentation of alternate views), clear goals and deadlines, and individual roles as needed. Propel conversations by posing and responding to	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
LAFS.910.SL.1.1	a. Come to discussions prepared, having read and researched material under study; explicitly draw on that preparation by referring to evidence from texts and other research on the topic or issue to stimulate a thoughtful, well-reasoned exchange of ideas.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
SC.912.N.2.1	Identify what is science, what clearly is not science, and what superficially resembles science (but fails to meet the criteria for science).	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods > Explore > Explore More resources > Reading Passage: What is Science?	https://app.discoveryeducation.com/player/view/assetGuid/322310db-f74c-4aed-a120-515bc1cd3414

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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.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods>Explore>Explore More resources>Reading Passage: What is Science?	https://app.discoveryeducation.com/player/view/assetGuid/322310db-f74c-4aed-a120-515bc1cd3414
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.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific methods > Elaborate > STEM Project: Can Robots Become Human?	https://app.discoveryeducation.com/learn/techbook/units/95ab1822-ff91-4d7c-aa6b-8fdc5d517a35/concepts/a7e0fb6c-68e0-4960-9401-6319e7e30be5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/05D15058-7DDD-4FB5-A918-042833BD9D63
SC.912.N.2.3	Identify examples of pseudoscience (such as astrology, phrenology) in society.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods > Explore > Explore More resources > Reading Passage: What is Science?	https://app.discoveryeducation.com/player/view/assetGuid/322310db-f74c-4aed-a120-515bc1cd3414
LAFS.910.SL.1.1	a. Come to discussions prepared, having read and researched material under study; explicitly draw on that preparation by referring to evidence from texts and other research on the topic or issue to stimulate a thoughtful, well-reasoned exchange of ideas.	Periodic Trends Chemical Properties and Changes > Introducing the Periodic Table > Periodic Trends > Explain	https://app.discoveryeducation.com/learn/techbook/units/aa596fc3-8856-4395-886f-5e368379fc60/concepts/c29850a7-4557-4bab-bddc-866c2ce9dd35/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
LAFS.910.SL.1.1	b. Work with peers to set rules for collegial discussions and decision-making (e.g., informal consensus, taking votes on key issues, presentation of alternate views), clear goals and deadlines, and individual roles as needed	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/tabs/0df56444-5400-41eb-a6ce-de52b7efb950

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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.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods > Explore > Explore More Resources > Reading Passage: Fusion Confusion	https://app.discoveryeducation.com/player/view/assetGuid/2f20b24d-262d-4084-9afe-694655aea2aa
LAFS.910.SL.1.1	c. Propel conversations by posing and responding to questions that relate the current discussion to broader themes or larger ideas; actively incorporate others into the discussion; and clarify, verify, or challenge ideas and conclusions.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate>Explain>Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
LAFS.910.SL.1.1	d. Respond thoughtfully to diverse perspectives, summarize points of agreement and disagreement, and, when warranted, qualify or justify their own views and understanding and make new connections in light of the evidence and reasoning presented.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
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.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods>Explore > Explore More Resources > Reading Passage: Fusion Confusion	https://app.discoveryeducation.com/player/view/assetGuid/2f20b24d-262d-4084-9afe-694655aea2aa
LAFS.910.SL.1.3	Evaluate a speakers point of view, reasoning, and use of evidence and rhetoric, identifying any fallacious reasoning or exaggerated or distorted evidence.	Nuclear Chemistry Matter > Understanding Atoms > Nuclear Chemistry > Explore > Explore More Resources > Reading Passage: Irradiating Food	https://app.discoveryeducation.com/player/view/assetGuid/d5733a52-ccb0-40c9-8ab2-c64cbc9bb20b
LAFS.910.SL.2.4	Present information, findings, and supporting evidence clearly, concisely, and logically such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose, audience, and task.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf

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LAFS.910.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.	Gas Laws Matter > Behavior of Matter > Gas Laws > Elaborate with STEM > STEM Project Starter: Want to Dive?	https://app.discoveryeducation.com/learn/techbook/units/750b6a64-7f96-4456-bc96-f7cbf6a232a7/concepts/39d769e3-3c50-44df-9e07-f03562e99e22/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/d07f3e28-7503-4015-a271-02bb01656654
LAFS.910.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.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
LAFS.910.WHST.1.1	Write arguments focused on discipline-specific content. a. Introduce precise claim(s), distinguish the claim(s) from alternate or opposing claims, and create an organization that establishes clear relationships among the claim(s), counterclaims, reasons, and evidence.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
LAFS.910.WHST.1.1	b. Develop claim(s) and counterclaims fairly, supplying data and evidence for each while pointing out the strengths and limitations of both claim(s) and counterclaims in a discipline-appropriate form and in a manner that anticipates the audiences knowledge level and concerns.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
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.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate>Explain	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
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.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > 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.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf

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LAFS.910.WHST.1.2:	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.	Parts of the Atom Matter > Understanding Atoms > Parts of the Atom> Arts of the Atom > Elaborate with STEM > STEM Project Starters page 2 > Project: Artificially Made	https://app.discoveryeducation.com/learn/techbook/units/8e63b3c8-2c95-4b06-b74d-0e4c2f99e56c/concepts/b6933f2e-81d6-4b36-8f1f-0bf8399d2863/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/4B521CB6-1713-45F4-9289-7317736A07E0
LAFS.910.WHST.1.2:	a. Introduce a topic and organize ideas, concepts, and information to make important connections and distinctions; include formatting (e.g., headings), graphics (e.g., figures, tables), and multimedia when useful to aiding comprehension.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
LAFS.910.WHST.1.2:	b. Develop the topic with well-chosen, relevant, and sufficient facts, extended definitions, concrete details, quotations, or other information and examples appropriate to the audiences knowledge of the topic.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
LAFS.910.WHST.1.2:	c.Use varied transitions, 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.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
LAFS.910.WHST.1.2:	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.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
LAFS.910.WHST.1.2:	e. 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).	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
LAFS.910.WHST.1.2:	e. 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).	Solutions Chemical Properties and Changes > Water and Solutions > Solutions > Explore > Explore More Resources > Hands-On Lab: Super Solubility	https://app.discoveryeducation.com/player/view/assetGuid/98ab8e96-883f-407d-9fdf-f9e6bf382b5b

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 or supports the argument presented.	Thermochemistry Chemical Properties and Changes > Chemical Reactions and Equations > Thermochemistry > Explain	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/324a5833-391b-4a2e-b3f3-7a7d19fa460b/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
LAFS.910.WHST.1.2:	f. Provide a concluding statement or section that follows from or supports the argument presented.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
LAFS.910.WHST.2.4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
LAFS.910.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.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
LAFS.910.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.	Development of the Atomic Theory Matter > Understanding Atoms > 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/8e63b3c8-2c95-4b06-b74d-0e4c2f99e56c/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/74565E51-9014-4095-ACE9-07D8A926750F
LAFS.910.WHST.2.6	Use technology, including the Internet, to produce, publish, and update individual or shared writing products, taking advantage of technologys capacity to link to other information and to display information flexibly and dynamically.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/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.910.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.	Applying Newton's Laws of Motion Energy, Force, and Motion > Motion > Applying Newton's Laws of Motion>Elaborate > STEM in Action > TEI: Newton's Laws and Robotics	https://app.discoveryeducation.com/learn/techbook/units/7c19f365-b504-461a-b342-c4cc9b3be2c5/concepts/f8b9cf4f-b4f7-4b98-81f5-072a91ada957/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
LAFS.910.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.	Applying Newton's Laws of Motion Energy, Force, and Motion > Motion > Applying Newton's Laws of Motion > Elaborate > STEM Project Starters: Applying Newton's Laws to Travel Systems	https://app.discoveryeducation.com/learn/techbook/units/7c19f365-b504-461a-b342-c4cc9b3be2c5/concepts/f8b9cf4f-b4f7-4b98-81f5-072a91ada957/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/842CB517-15E2-4BEF-94B3-1AB155895230
LAFS.910.WHST.3.8	Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the usefulness of each source in answering the research question; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and following a standard format for citation.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
LAFS.910.WHST.3.8	Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the usefulness of each source in answering the research question; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and following a standard format for citation.	Chemical Reactions and Equations Chemical Properties and Changes > Chemical Reactions and Equations > Chemical Reactions and Equations > Elaborate with STEM > STEM Project Starter: How Can You Scrub a Smokestack?	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/95b34eaf-0130-42b8-89dd-0d0cbf276c1e/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/de5856ee-b337-4df9-95f6-35a36a28a5d0
LAFS.910.WHST.3.9	Draw evidence from informational texts to support analysis, reflection, and research.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf

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

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LAFS.910.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.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
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.	Electric Circuits Matter > Electromagnetism > Electric Circuits > Explore > Explore More Resources > Problem Solving Worksheet: Electric Circuits	https://app.discoveryeducation.com/player/view/assetGuid/7bbf0497-fc3f-44a8-8293-3637da335c06
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.	Electric Circuits Matter > Electromagnetism > Electric Circuits > Explore > Explore More Resources > Hands-On Lab: Electric Circuits.	https://app.discoveryeducation.com/player/view/assetGuid/7361e746-1b72-4eb1-96e4-7aa7e7cd1fea
MAFS.912.N-Q.1.3	Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.	Measurement Energy, Force, and Motion > The Process of Science > Measurement > Explore > Core Interactive Text p2 > Making Accurate and precise Measurements	https://app.discoveryeducation.com/learn/techbook/units/95ab1822-ff91-4d7c-aa6b-8fdc5d517a35/concepts/a8be700e-2051-43c1-82c4-ab703980220d/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/e8b80ee8-c855-4f87-9a88-5f6a14eb494f
SC.912.P.10.5	Relate temperature to the average molecular kinetic energy.	Thermochemistry Chemical Properties and Changes > Chemical Reactions and Equations > Thermochemistry > Explore > Explore More Resources > Enthalpy of Neutralization	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/324a5833-391b-4a2e-b3f3-7a7d19fa460b/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/9bfd2a71-ca4e-4b4c-bd1a-80c239cf2dd0
MAFS.912.N-Q.1.3	Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.	Measurement Energy, Force, and Motion > The Process of Science > Measurement > Explore > Core Interactive Text p2 > From Hot to Cold	https://app.discoveryeducation.com/player/view/assetGuid/2f9fccef-7ad5-4c4a-be2b-9afee8bc6061

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
STANDARDS ALIGNMENT
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	
MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Applying Newton's Laws of Motion Energy, Force, and Motion > Motion > Applying Newton's Laws of Motion > Explore > Explore More Resources > Activity: Known Forces of Motion #2	https://app.discoveryeducation.com/player/view/assetGuid/576e3e0e-8da3-446f-bd33-7040497c99d3
MAFS.K12.MP.1.1	Make sense of problems and persevere in solving them.	Gravity Energy, Force and Motion > Force > Gravity > Explore > Core Interactive Text p2 > Gravitational Fields	https://app.discoveryeducation.com/learn/techbook/units/e38fe020-24d3-4f72-a742-599de7325299/concepts/8d7b705d-f8d9-4d0c-b14e-2db88fde69f5/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/76d60587-c038-439c-b861-78cd2781008e
MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Electricity and Magnetism Matter > Electromagnetism > Electricity and Magnetism > Explore > Explore More Resources > Hands-On Activity: Modeling Electromagnetic Waves	https://app.discoveryeducation.com/player/view/assetGuid/bcd542a2-a89e-44c9-a72d-14a9c12dbbce
SC.912.P.10.10	Compare the magnitude and range of the four fundamental forces (gravitational, electromagnetic, weak nuclear, strong nuclear).	Fundamental Forces Energy, Force and Motion > Force > Fundamental Forces>Explore>Core Interactive Text p1>Four Forces.	https://app.discoveryeducation.com/learn/techbook/units/e38fe020-24d3-4f72-a742-599de7325299/concepts/24560d00-4cd8-47a5-945b-40035c520c9b/tabs/759da9a7-2edf-4cde-9515-7081ca990764
MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Electric Circuits Matter > Electromagnetism > Electric Circuits > Explore > Explore More Resources > Activity: Voltage and Current in DC Circuits	https://app.discoveryeducation.com/player/view/assetGuid/c9575b6a-4b9a-4d17-a95c-1a946c99a02d
MAFS.K12.MP.2.1	Reason abstractly and quantitatively.	Work and Power Energy, Force, and Motion > Motion > Work and Power > Explore > Explore More Resources > Activity: Definition of Work #1	https://app.discoveryeducation.com/player/view/assetGuid/a4e88dbf-0619-483c-921d-26ea9baad325

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

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MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Chemical Reactions and Equations Chemical Properties and Changes > Chemical Reactions and Equations > Chemical Reactions and Equations > Elaborate with STEM > STEM in Action: Applying Chemical Reactions and Equations	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/95b34eaf-0130-42b8-89dd-0d0cbf276c1e/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/ffefab53-bdad-4555-803e-89678ded8c8a
MAFS.K12.MP.3.1	Construct viable arguments and critique the reasoning of others.	Chemical Reactions and Equations Chemical Properties and Changes > Chemical Reactions and Equations > Chemical Reactions and Equations > Elaborate with STEM > STEM in Action: Applying Chemical Reactions and Equations	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/95b34eaf-0130-42b8-89dd-0d0cbf276c1e/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/ffefab53-bdad-4555-803e-89678ded8c8a
MAFS.K12.MP.4.1	Model with mathematics.	Nuclear Chemistry Matter > Understanding Atoms > Nuclear Chemistry > Elaborate > STEM Project Starter: How Much Energy	https://app.discoveryeducation.com/learn/techbook/units/8e63b3c8-2c95-4b06-b74d-0e4c2f99e56c/concepts/1558cc01-0d34-4cc7-ae9d-61a5687446dc/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/68583188-8661-44D4-A1B2-ACF9D16A1527
MAFS.K12.MP.5.1	Use appropriate tools strategically.	Nuclear Chemistry Matter > Understanding Atoms > Nuclear Chemistry > Elaborate > STEM Project Starter: How Much Energy	https://app.discoveryeducation.com/learn/techbook/units/8e63b3c8-2c95-4b06-b74d-0e4c2f99e56c/concepts/1558cc01-0d34-4cc7-ae9d-61a5687446dc/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/68583188-8661-44D4-A1B2-ACF9D16A1527
MAFS.K12.MP.6.1	Attend to precision.	Nuclear Chemistry Matter > Understanding Atoms > Nuclear Chemistry > Explore > Explore More Resources > Exploration: Nuclear Forces	https://app.discoveryeducation.com/player/view/assetGuid/e729a30a-d12e-4e2a-96dd-89148c7926ca

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

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MAFS.K12.MP.6.1	Attend to precision.	Measurement Energy, Force, and Motion > The Process of Science > Measurement>Explore > Core Interactive Text p2 > Making Accurate and Precise Measurements	https://app.discoveryeducation.com/learn/techbook/units/95ab1822-ff91-4d7c-aa6b-8fdc5d517a35/concepts/a8be700e-2051-43c1-82c4-ab703980220d/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/e8b80ee8-c855-4f87-9a88-5f6a14eb494f
MAFS.K12.MP.6.1	Attend to precision.	Measurement Energy, Force, and Motion > The Process of Science > Measuremen t> Explore > Explore More Resources > Hands-On Lab: Measurement	https://app.discoveryeducation.com/player/view/assetGuid/2f9fccef-7ad5-4c4a-be2b-9afee8bc6061
MAFS.K12.MP.6.1	Attend to precision.	Measurement Energy, Force, and Motion > The Process of Science > Measurement > Evaluate > Constructed Response: Q1: Making Measurements with Precision	https://app.discoveryeducation.com/player/view/assetGuid/d23b5069-cf50-4496-810b-6c186e6f7a61
MAFS.K12.MP.7.1	Look for and make use of structure.	Newton's Second Law of Motion Energy, Force and Motion > Motion > Newton's Second Law of Motion > Explore > Explore More Resources > Hands-On Lab: Exploring the Relationship Between Force and Motion	https://app.discoveryeducation.com/player/view/assetGuid/8eb44a84-2350-423a-a95b-8bdcc5b37f54
MAFS.K12.MP.8.1	Look for and express regularity in repeated reasoning.	Wave Characteristics Energy, Force, and Motion > Energy > Wave Characteristics > Explore > Explore More Resources > Hands-On Lab: Wave Characteristics	https://app.discoveryeducation.com/player/view/assetGuid/d5712923-81bb-4fb8-bbe8-50f4991e4a5a

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

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SC.912.E.7.1	Analyze the movement of matter and energy through the different biogeochemical cycles, including water and carbon.	Water Chemical Properties and Changes > Water and Solutions > Water > Explore> Core Interactive Text p2 > The Water Cycle	https://app.discoveryeducation.com/learn/techbook/units/23456a3b-039b-4643-8911-e94ee5c5e112/concepts/2225f6bb-6cb9-411d-b24c-51570e87001e/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/43b80e21-9f5b-4ba7-b5c9-8227c7a45cff
SC.912.E.7.1	Analyze the movement of matter and energy through the different biogeochemical cycles, including water and carbon.	Energy for Life Energy, Force and Motion > Energy > Energy for Life > Explore > p6 > What is the Role of Photosynthesis and Respiration in the Carbon Cycle?	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/5b594c6a-64a0-4796-b2c1-13ebccbddac1/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/b4a90ea7-dfcc-462e-95d9-c8e69d139550
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.	Water Chemical Properties and Changes > Water and Solutions > Water > Explore> Core Interactive Text	https://app.discoveryeducation.com/learn/techbook/units/23456a3b-039b-4643-8911-e94ee5c5e112/concepts/2225f6bb-6cb9-411d-b24c-51570e87001e/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.L.18.7	Identify the reactants, products, and basic functions of photosynthesis.	Energy for Life Energy, Force and Motion > Energy > Energy for Life> Explore > p6 > What is the Role of Photosynthesis and Respiration in the Carbon Cycle?	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/5b594c6a-64a0-4796-b2c1-13ebccbddac1/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/b4a90ea7-dfcc-462e-95d9-c8e69d139550
SC.912.L.18.8	Identify the reactants, products, and basic functions of aerobic and anaerobic cellular respiration.	Energy for Life Energy, Force and Motion > Energy > Energy for Life > Explore > p6 > What is the Role of Photosynthesis and Respiration in the Carbon Cycle?	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/5b594c6a-64a0-4796-b2c1-13ebccbddac1/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/b4a90ea7-dfcc-462e-95d9-c8e69d139550
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:	Heat Energy, Force, and Motion > Energy > Heat > Explore > Explore More Resources > Hands-On Lab: Designing Solutions: Slowing Down Heat Transfer	https://app.discoveryeducation.com/player/view/assetGuid/ea3ab8ee-c66a-41b6-a3fc-dff1377e6a22

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

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SC.912.N.1.1	Pose questions about the natural world, (Articulate the purpose of the investigation and identify the relevant scientific concepts).	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods > Elaborate > STEM in Action > Technology Enhanced Item: A Dangerous Trend	https://app.discoveryeducation.com/learn/techbook/units/95ab1822-ff91-4d7c-aa6b-8fdc5d517a35/concepts/a7e0fb6c-68e0-4960-9401-6319e7e30be5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f
SC.912.N.1.1	Conduct systematic observations, (Write procedures that are clear and replicable. Identify observables and examine relationships between test (independent) variable and outcome (dependent) variable.	Periodic Trends Chemical Properties and Changes > Introducing 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
SC.912.N.1.1	Conduct systematic observations, (Write procedures that are clear and replicable. Identify observables and examine relationships between test (independent) variable and outcome (dependent) variable.	Understanding and Describing Motion Energy, Force, and Motion > Motion > Understanding and Describing Motion > Explore > Explore More Resources > Hands-On Lab: Understanding and Describing Motion	https://app.discoveryeducation.com/player/view/assetGuid/aca982f0-58a8-4634-a3fe-f2b46b801758
SC.912.N.1.1	Employ appropriate methods for accurate and consistent observations conduct and record measurements at appropriate levels of precision. Follow safety guidelines).	Electric Circuits Matter > Electromagnetism > Electric Circuits > Explore > Explore More Resources > Hands-On Lab: Electric Circuits.	https://app.discoveryeducation.com/player/view/assetGuid/7361e746-1b72-4eb1-96e4-7aa7e7cd1fea
SC.912.N.1.1	Pose questions about the natural world, (Articulate the purpose of the investigation and identify the relevant scientific concepts).	Covalent Bonding Chemical Properties and Changes > 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

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

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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:* Examine books and other sources of information to see what is already known, Review what is known in light of empirical evidence, (Examine whether available empirical evidence can be interpreted in terms of existing knowledge and models, and if not, modify or develop new models).	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods > Elaborate > STEM Project Starter: Loads of Pressure	https://app.discoveryeducation.com/learn/techbook/units/95ab1822-ff91-4d7c-aa6b-8fdc5d517a35/concepts/a7e0fb6c-68e0-4960-9401-6319e7e30be5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/EAAA78CB-A431-4A03-8820-8387D9EBF67E
SC.912.N.1.1	Plan investigations, (Design and evaluate a scientific investigation). Use tools to gather, analyze, and interpret data (this includes the use of measurement in metric and other systems, and also the generation and interpretation of graphical representations of data, including data tables and graphs), (Collect data or evidence in an organized way. Properly use instruments, equipment, and materials (e.g., scales, probeware, meter sticks, microscopes, computers) including set-up, calibration, technique, maintenance, and storage).	Electric Circuits Matter > Electromagnetism > Electric Circuits > Explore > Explore More Resources > Hands-On Lab: Electric Circuits.	https://gtm-media.discoveryeducation.com/videos/DSC/data/DE_TX_AL_Phys_ElectricCircuits_HOL_TG_InteractionsMatterEnergy_FINAL.pdf
SC.912.N.1.1	Pose answers, explanations, or descriptions of events, Generate explanations that explicate or describe natural phenomena (inferences), Use appropriate evidence and reasoning to justify these explanations to others, Communicate results of scientific investigations, and Evaluate the merits of the explanations produced by others.	Electric and Magnetic Fields Matter > Electromagnetism > Electric and Magnetic Fields > Explore > Explore More Resources > Hands-On Lab: Drawing Electric and Magnetic Fields.	https://app.discoveryeducation.com/player/view/assetGuid/f25a448c-adf9-42f5-af00-2b460eb769a9

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

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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:* Examine books and other sources of information to see what is already known, Review what is known in light of empirical evidence, (Examine whether available empirical evidence can be interpreted in terms of existing knowledge and models, and if not, modify or develop new models).	Classification of Matter Matter > Behavior of Matter > Classification of Matter > Elaborate > STEM Project Starte:Purrifying Polluted Water	https://app.discoveryeducation.com/learn/techbook/units/750b6a64-7f96-4456-bc96-f7cbf6a232a7/concepts/15206787-c5a4-4506-b014-82e1d56d8057/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/02AC4AAB-F29F-4083-810E-7DD445A8084F
SC.912.N.1.2	Describe and explain what characterizes science and its methods.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods>Explore > Core Interactive Text p1-8	https://app.discoveryeducation.com/learn/techbook/units/95ab1822-ff91-4d7c-aa6b-8fdc5d517a35/concepts/a7e0fb6c-68e0-4960-9401-6319e7e30be5/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.N.1.3	Recognize that the strength or usefulness of a scientific claim is evaluated through scientific argumentation, which depends on critical and logical thinking, and the active consideration of alternative scientific explanations to explain the data presented.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/tabs/0df56444-5400-41eb-a6ce-de52b7efb950
SC.912.P.12.11	Describe phase transitions in terms of kinetic molecular theory.	Physical Behavior of Matter Matter > Behavior of Matter > Physical Behavior of Matter > Explore > Core Interactive Text p1 to 3	https://app.discoveryeducation.com/learn/techbook/units/60b7c82b-484f-4a48-88db-e6b3f2038fc4/concepts/678826b7-dbeb-4072-82cc-b799266b5645/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.12.11	Describe phase transitions in terms of kinetic molecular theory.	Physical Behavior of Matter Matter > Behavior of Matter > Physical Behavior of Matter > Elaborate > Constructed Response > Physical Behavior of Matter	https://docreader.readspeaker.com/docreader/index.php?jsmode=1&cid=brqmy&bp=sptol=0.3&url=https%3A%2F%2Fgtm-media.discoveryeducation.com%2Fvideos%2FTechbook%2FPDFs%2FPhysical_Behavior_of_Matter.pdf
SC.912.N.1.3	Recognize that the strength or usefulness of a scientific claim is evaluated through scientific argumentation, which depends on critical and logical thinking, and the active consideration of alternative scientific explanations to explain the data presented.	Conductors and Insulators Matter > Electromagnetism > Conductors and Insulators > Explain	https://app.discoveryeducation.com/learn/techbook/units/c595b42a-94c6-4562-8fde-8dfc44b8a408/concepts/c1d7c942-a8e3-4257-8aa2-9c8badf11b12/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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SC.912.N.1.4	Identify sources of information and assess their reliability according to the strict standards of scientific investigation.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explain > Teacher guide	https://gtm-media-3.discoveryeducation.com/v3.4/DSC/data/pdfs/SciExplan_TG_FINAL_REV.pdf
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.	Chemical Reactions and Equations Chemical Reactions and Equations > 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
SC.912.N.1.6	Describe how scientific inferences are drawn from scientific observations and provide examples from the content being studied.	Electric Forces Energy, Force and Motion > Force > Electric Forces > Explore > Explore More Resources > Reading Passage: Faraday Follows in Franklin's Footsteps	https://app.discoveryeducation.com/player/view/assetGuid/c347afcf-3b2c-4f75-b4e4-1e28e87c12e8
SC.912.N.1.6	Describe how scientific inferences are drawn from scientific observations and provide examples from the content being studied.	Observations vs Inferences Energy, Force and Motion > The Process of Science > Observations and Inferences > Explore > Core Interactive Text p1 > What is the difference between an observation and an inference?	https://app.discoveryeducation.com/learn/techbook/units/95ab1822-ff91-4d7c-aa6b-8fdc5d517a35/concepts/46df2a48-f8f9-4b6e-94a8-c8172df8e90c/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.N.1.6	Describe how scientific inferences are drawn from scientific observations and provide examples from the content being studied.	Observations vs Inferences Energy, Force and Motion > The Process of Science > Observations and Inferences > Evaluate > Constructed Response: Observations vs Inferences	https://app.discoveryeducation.com/player/view/assetGuid/b5f0201c-cea0-49b0-bafe-c24b7dc8d993

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

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SC.912.N.1.7	Recognize the role of creativity in constructing scientific questions, methods and explanations.	Wave Characteristics Energy, Force, and Motion > Energy > Wave Characteristics > Explore > Explore More Resources > Reading Passage: The View Is Never the Same . . .	https://app.discoveryeducation.com/player/view/assetGuid/6d488a55-74ca-4d6d-8e3f-85d31914f1ca
SC.912.N.2.1	Identify what is science, what clearly is not science, and what superficially resembles science (but fails to meet the criteria for science).	Using Scientific Methods Using Scientific Methods > Explore > Explore More Resources > Reading Passage: What Is Science?	https://app.discoveryeducation.com/player/view/assetGuid/322310db-f74c-4aed-a120-515bc1cd3414
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.	Using Scientific Methods Using Scientific Methods > Elaborate > STEM Project Starters > Can Robots Become Human?	https://app.discoveryeducation.com/learn/techbook/units/95ab1822-ff91-4d7c-aa6b-8fdc5d517a35/concepts/a7e0fb6c-68e0-4960-9401-6319e7e30be5/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/05d15058-7ddd-4fb5-a918-042833bd9d63
SC.912.N.2.3	Identify examples of pseudoscience (such as astrology, phrenology) in society.	Nuclear Chemistry Matter > Understanding Atoms > Nuclear Chemistry > Explore > ExploreMore Resources > Reading Passage: Fusion Confusion	https://app.discoveryeducation.com/player/view/assetGuid/2f20b24d-262d-4084-9afe-694655aea2aa
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.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods > Explore > Core Interactive Text p8	https://app.discoveryeducation.com/learn/techbook/units/95ab1822-ff91-4d7c-aa6b-8fdc5d517a35/concepts/a7e0fb6c-68e0-4960-9401-6319e7e30be5/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/d0bbd063-8971-44de-a09c-b147272beeb4

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

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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.	Development of the Periodic Table Chemical Properties and Changes > Introducing the Periodic Table > Development of the Periodic Table>Explore > Core Interactive Text p2 > Predicting the Properties of Undiscovered Elements	https://app.discoveryeducation.com/learn/techbook/units/aa596fc3-8856-4395-886f-5e368379fc60/concepts/be7a7275-4e14-4481-9e9a-24052e24f452/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/fc8d7e58-4faf-4db8-8325-390d244bba09
SC.912.N.3.1	Explain that a scientific theory is the culmination of many scientific investigations drawing together all the current evidence concerning a substantial range of phenomena thus, a scientific theory represents the most powerful explanation scientists have to offer.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods > Explore > p8	https://app.discoveryeducation.com/learn/techbook/units/95ab1822-ff91-4d7c-aa6b-8fdc5d517a35/concepts/a7e0fb6c-68e0-4960-9401-6319e7e30be5/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/d0bbd063-8971-44de-a09c-b147272beeb4
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.	Development of the Atomic Theory Matter > Understanding Atoms > Development of the Atomic Theory>Explore > Core Interactive Text	https://app.discoveryeducation.com/learn/techbook/units/8e63b3c8-2c95-4b06-b74d-0e4c2f99e56c/concepts/5748e36e-4493-4caa-860d-12d36fabffd5/tabs/759da9a7-2edf-4cde-9515-7081ca990764
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.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods > Explore > p8	https://app.discoveryeducation.com/learn/techbook/units/95ab1822-ff91-4d7c-aa6b-8fdc5d517a35/concepts/a7e0fb6c-68e0-4960-9401-6319e7e30be5/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/d0bbd063-8971-44de-a09c-b147272beeb4
SC.912.N.3.4	Recognize that theories do not become laws, nor do laws become theories theories are well supported explanations and laws are well supported descriptions.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods > Explore >p8	https://app.discoveryeducation.com/learn/techbook/units/95ab1822-ff91-4d7c-aa6b-8fdc5d517a35/concepts/a7e0fb6c-68e0-4960-9401-6319e7e30be5/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/d0bbd063-8971-44de-a09c-b147272beeb4

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.	Development of the Atomic Theory Matter > Understanding Atoms > Development of the Atomic Theory > Explore > Explore More Resources > Exploration: Development of Atomic Theory	https://app.discoveryeducation.com/player/view/assetGuid/70f5ee14-1fa9-4622-8b9a-04699c875ded
SC.912.N.3.5	Describe the function of models in science, and identify the wide range of models used in science.	Using Scientific Methods Energy, Force and Motion > The Process of Science > Using Scientific Methods > Explore > Explore More resources > Video: Model	https://app.discoveryeducation.com/player/view/assetGuid/26dd4279-9798-42b5-ae0f-fcf1eaedc8f8
SC.912.N.4.1	Explain how scientific knowledge and reasoning provide an empirically-based perspective to inform society's decision making.	Nuclear Chemistry Matter > Understanding Atoms > Nuclear Chemistry > Explore > Elaborate > STEM Project: Nuclear Energy	https://app.discoveryeducation.com/learn/techbook/units/8e63b3c8-2c95-4b06-b74d-0e4c2f99e56c/concepts/1558cc01-0d34-4cc7-ae9d-61a5687446dc/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/0906F376-7025-4E27-AAD0-66FF2BB94A72
SC.912.N.4.2	Weigh the merits of alternative strategies for solving a specific societal problem by comparing a number of different costs and benefits, such as human, economic, and environmental.	Nuclear Chemistry Matter > Understanding Atoms > Nuclear Chemistry > Explore > Elaborate > STEM Project: Nuclear Energy	https://app.discoveryeducation.com/learn/techbook/units/8e63b3c8-2c95-4b06-b74d-0e4c2f99e56c/concepts/1558cc01-0d34-4cc7-ae9d-61a5687446dc/tabs/054d49d8-d8f5-4203-b276-19e25b56cc5f/pages/0906F376-7025-4E27-AAD0-66FF2BB94A72
SC.912.P.10.1	Differentiate among the various forms of energy and recognize that they can be transformed from one form to others.	Types of Energy Energy, Force and Motion > Energy > Types of Energy>Explore > Core Interactive Text p1 & 2	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/d0d24af7-4c7e-477a-983a-672c76331467/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.10.1	Differentiate among the various forms of energy and recognize that they can be transformed from one form to others.	Types of Energy Energy, Force and Motion > Energy > Types of Energy>Explore > Explore More Resources > Exploration > Types of Energy	https://app.discoveryeducation.com/player/view/assetGuid/293b465e-f3c6-44cc-a26f-19445bf6e343

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.	Conservation of Energy Energy, Force and Motion > Energy> Conservation of Energy > Explore> Explore More Resources > Exploration: Conservation of Energy	https://app.discoveryeducation.com/player/view/assetGuid/e9d92ce6-6bec-4b1f-8f87-436df11dc5ec
SC.912.P.10.10	Compare the magnitude and range of the four fundamental forces (gravitational, electromagnetic, weak nuclear, strong nuclear).	Fundamental Forces Energy, Force and Motion > Force > Fundamental Forces > Explore > Explore More Resources > Exploration: Fundamental Forces	https://app.discoveryeducation.com/player/view/assetGuid/6c2e04b7-0e6c-4854-9e6c-e9c1eeb33396
SC.912.P.10.12	Differentiate between chemical and nuclear reactions.	Nuclear Chemistry Matter > Understanding Atoms > Nuclear Chemistry>Explore > Core Interactive Text p3 > Transmutation Verses Chemical Change Compare?	https://app.discoveryeducation.com/learn/techbook/units/8e63b3c8-2c95-4b06-b74d-0e4c2f99e56c/concepts/1558cc01-0d34-4cc7-ae9d-61a5687446dc/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/f68e8407-9985-49f1-aa6d-5bab109ffc53
SC.912.P.10.12	Differentiate between chemical and nuclear reactions.	Nuclear Chemistry Matter > Understanding Atoms > Nuclear Chemistry > Evaluate > Constructed Response: Nuclear Chemistry	https://docreader.readspeaker.com/docreader/index.php?jsmode=1&cid=brqmy&bp=sptol=0.3&url=https%3A%2F%2Fgtm-media.discoveryeducation.com%2Fvideos%2FTechbookPDFs%2FNuclear_Chemistry.pdf
SC.912.P.10.14	Differentiate among conductors, semiconductors, and insulators.	Conductors and Insulators Matter > Electromagnetism > Conductors and Insulators > Explore > Core Interactive Text p1 > Conductors and Insulators	https://app.discoveryeducation.com/learn/techbook/units/c595b42a-94c6-4562-8fde-8dfc44b8a408/concepts/c1d7c942-a8e3-4257-8aa2-9c8badf11b12/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.10.14	Differentiate among conductors, semiconductors, and insulators.	Conductors and Insulators Matter > Electromagnetism > Conductors and Insulators > Explore > Explore More Resources > Hands-On Lab: Conductors and Insulators.	https://app.discoveryeducation.com/player/view/assetGuid/e5e5ceb5-57ac-4a35-9b99-d4f9e903706d

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

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SC.912.P.10.14	Differentiate among conductors, semiconductors, and insulators.	Conductors and Insulators Matter > Electromagnetism > Conductors and Insulators > Explore > Explore More Resources > Exploration: Conductors and Insulators	https://app.discoveryeducation.com/player/view/assetGuid/3a1fbef3-aa1c-4819-b32d-c6e1c0ac1902
SC.912.P.10.15	Investigate and explain the relationships among current, voltage, resistance, and power.	Electric Circuits Matter > Electromagnetism > Electric Circuits > Explore > Explore More Resources > Hands-On Lab: Electric Circuits.	https://app.discoveryeducation.com/player/view/assetGuid/7361e746-1b72-4eb1-96e4-7aa7e7cd1fea
SC.912.P.10.15	Investigate and explain the relationships among current, voltage, resistance, and power.	Electric Circuits Matter > Electromagnetism > Electric Circuits > Explore > Explore More Resources > Activity: Different Equations for Parallel Circuits	https://app.discoveryeducation.com/player/view/assetGuid/F6671700-A840-4358-9CCE-739471CFA6D7
SC.912.P.10.15	Investigate and explain the relationships among current, voltage, resistance, and power.	Electric Circuits Matter > Electromagnetism > Electric Circuits > Explore > Core Interactive Text p4 > How can you determine the relationship between power and resistance in a circuit?	https://app.discoveryeducation.com/learn/techbook/units/c595b42a-94c6-4562-8fde-8dfc44b8a408/concepts/9a222497-04e2-4d06-8ea9-fe7a945cc207/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/89ecb12f-4e18-49a5-9606-6effe5534d4a
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.	Wave Characteristics Energy, Force, and Motion > Energy > Wave Characteristics > Explore > Core Interactive Text p8 > What are the different wavelength bands of the electromagnetic spectrum?	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/3ce8fdc9-8127-46e2-9cfd-20ea67aeccfc/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/53183220-5b90-4a84-8abb-955c3ed34cff

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

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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.	Wave Characteristics Energy, Force, and Motion > Energy >Wave Characteristics > Explore > Core Interactive Text p12 > What are some medical or industrial applications of different electromagnetic waves?	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/3ce8fdc9-8127-46e2-9cfd-20ea67aeccfc/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/b5edbad4-0c3f-4fc9-8695-c8d7e1db70b1
SC.912.P.10.21	Qualitatively describe the shift in frequency in sound or electromagnetic waves due to the relative motion of a source or a receiver.	Wave Characteristics Energy, Force, and Motion > Energy > Wave Characteristics > Explore > Explore More Resources > Reading Passage: The View Is Never the Same	https://app.discoveryeducation.com/player/view/assetGuid/6d488a55-74ca-4d6d-8e3f-85d31914f1ca
SC.912.P.10.21	Qualitatively describe the shift in frequency in sound or electromagnetic waves due to the relative motion of a source or a receiver.	Wave Characteristics Energy, Force, and Motion > Energy > Wave Characteristics > Explore > Core Interactive Text p10 > What is the Doppler effect and how does it relate to the frequency of a wave?	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/3ce8fdc9-8127-46e2-9cfd-20ea67aeccfc/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/7e25723b-6d3c-4b64-bee1-3e8fcd8d3eec
SC.912.P.10.3	Compare and contrast work and power qualitatively and quantitatively.	Work and Power Energy, Force, and Motion > Motion > Work and Power > Explore > Explore More Resources> Hands-On Lab: Work and Power	https://gtm-media.discoveryeducation.com/videos/DSC/data/PHYS_Forces_WorkPower_TeacherHOL_Final_LLS_SRM.pdf
SC.912.P.10.3	Compare and contrast work and power qualitatively and quantitatively.	Work and Power Energy, Force, and Motion > Motion > Work and Power > Explore > Core Interactive Text p1 & 2	https://app.discoveryeducation.com/learn/techbook/units/7c19f365-b504-461a-b342-c4cc9b3be2c5/concepts/dc97221c-c184-4f6c-ad72-d9164cec9c3a/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.10.4	Describe heat as the energy transferred by convection, conduction, and radiation, and explain the connection of heat to change in temperature or states of matter.	Heat Energy, Force, and Motion > Energy > Heat > Explore > Core Interactive Text p5 > Three Methods of Heat Transfer	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/af5bec30-5086-4751-8235-659cbd4db90f/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/489321f5-f371-4c53-a7d8-bcbd0be172c7

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

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SC.912.P.10.4	Describe heat as the energy transferred by convection, conduction, and radiation, and explain the connection of heat to change in temperature or states of matter.	Heat Energy, Force, and Motion > Energy > Heat > Explore > Core Interactive Text p4 > How Does Thermal Energy Transfer (Heat) Cause Substances to Change State	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/af5bec30-5086-4751-8235-659cbd4db90f/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/1a17d213-8797-4b9b-bcdc-7cf11f25d509
SC.912.P.10.5	Relate temperature to the average molecular kinetic energy.	Heat Energy, Force, and Motion > Energy > Heat>Explore > Core Interactive Text p2 >Thermal Energy verses Temperature	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/af5bec30-5086-4751-8235-659cbd4db90f/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/2a333de5-4b99-4429-8305-a469c82016e1
SC.912.P.10.5	Relate temperature to the average molecular kinetic energy.	Gas Laws Matter > Behavior of Matter > Gas Laws > Explore > Core Interactive Text p2 > Charles Law	https://app.discoveryeducation.com/learn/techbook/units/750b6a64-7f96-4456-bc96-f7cbf6a232a7/concepts/39d769e3-3c50-44df-9e07-f03562e99e22/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/51f0ec6d-ab4e-4b49-abc7-e5f7ca15ceb6
SC.912.P.10.7	Distinguish between endothermic and exothermic chemical processes.	Thermochemistry Chemical Properties and Changes > Chemical Reactions and Equations > Thermochemistry > Explore > Core Interactive Text p1 > How do you distinguish between exothermic and endothermic reactions and processes?	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/324a5833-391b-4a2e-b3f3-7a7d19fa460b/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.10.7	Distinguish between endothermic and exothermic chemical processes.	Thermochemistry Chemical Properties and Changes > Chemical Reactions and Equations > Thermochemistry > Explore > Explore More Resources > Enthalpy of Neutralization	https://app.discoveryeducation.com/player/view/assetGuid/917996b0-7b41-42a4-b2fa-1aca83879ddb

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.	Thermochemistry Chemical Properties and Changes > Chemical Reactions and Equations > Thermochemistry > Evaluate > Constructed Response: Thermochemistry	https://app.discoveryeducation.com/player/view/assetGuid/0c7e2de3-bd70-4965-b87c-6a27e5ce7abe
SC.912.P.12.10	Interpret the behavior of ideal gases in terms of kinetic molecular theory.	Gas Laws Matter > Behavior of Matter > Gas Laws > Explore > p4 > The Ideal Gas Law	https://app.discoveryeducation.com/learn/techbook/units/750b6a64-7f96-4456-bc96-f7cbf6a232a7/concepts/39d769e3-3c50-44df-9e07-f03562e99e22/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/ff99633c-d383-4fcf-b6dd-3ebbbfc057c1
SC.912.P.12.10	Interpret the behavior of ideal gases in terms of kinetic molecular theory.	Gas Laws Matter > Behavior of Matter > Gas Laws > Explore > Explore More Resources > Activity:Ideal Gas Law	https://app.discoveryeducation.com/player/view/assetGuid/44C60DD4-6E58-4504-B824-8733B74D2DBF
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.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explore > Core Interactive Text p1 > Factors that Influence Reaction Rate	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/d0a84c06-422a-4fbb-b8b8-6695c8415739/tabs/759da9a7-2edf-4cde-9515-7081ca990764
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.	Reaction Rate Chemical Properties and Changes > Chemical Reactions and Equations > Reaction Rate > Explore > Explore More Resources > Exploration: Reaction Rate	https://app.discoveryeducation.com/player/view/assetGuid/74f71e73-c355-4957-a34f-b05a389ec017

2016-2017 STATE OF FLORIDA INSTRUCTIONAL MATERIALS ADOPTION
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SC.912.P.12.2	Analyze the motion of an object in terms of its position, velocity, and acceleration (with respect to a frame of reference) as functions of time.	Understanding and Describing Motion Energy, Force and Motion > Motion > Understanding and Describing Motion > Explore > Core Interactive Text p1 > What Are Frames of Reference and How do they Related to Motion	https://app.discoveryeducation.com/learn/techbook/units/7c19f365-b504-461a-b342-c4cc9b3be2c5/concepts/cb93798e-3021-48d2-8426-81a01c385789/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.12.2	Analyze the motion of an object in terms of its position, velocity, and acceleration (with respect to a frame of reference) as functions of time.	Understanding and Describing Motion Energy, Force and Motion > Motion > Understanding and Describing Motion > Explore > Explore More resources > Exploration: Understanding and Describing Motion	https://app.discoveryeducation.com/player/view/assetGuid/aca982f0-58a8-4634-a3fe-f2b46b801758
SC.912.P.12.3	Interpret and apply Newton's three laws of motion.	Newton's First Law of Motion Energy, Force and Motion > Motion > Newton's First Law of Motion > Explore > Explore More Resources > Exploration: Newtons' First Law of Motion	https://app.discoveryeducation.com/player/view/assetGuid/ae61849f-2c8a-4603-a541-f7394d0a56d7
SC.912.P.12.3	Interpret and apply Newton's three laws of motion.	Newton's Second Law of Motion Energy, Force and Motion > Motion > Newton's Second Law of Motion > Explore > Core Interactive Text p2	https://app.discoveryeducation.com/learn/techbook/units/7c19f365-b504-461a-b342-c4cc9b3be2c5/concepts/ca17651a-a1fe-40b4-aa34-3c57d40035b2/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/87df7c1a-88f7-4a8f-ab4f-2067320a9669

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STANDARDS ALIGNMENT
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SC.912.P.12.3	Interpret and apply Newton's three laws of motion.	Newton's Second Law of Motion Energy, Force and Motion > Motion >Newton's Second Law of Motion > Explore > Explore More Resources > Exploration > Newton's Second Law of Motion	https://app.discoveryeducation.com/player/view/assetGuid/2a0c3114-85a1-4d85-847c-cd7a9a540178
SC.912.P.12.3	Interpret and apply Newton's three laws of motion.	Newton's Third Law of Motion Energy, Force, and Motion > Motion > Newton's Third Law of Motion > Explore > Explore More Resources > Hands-On Lab: Pulling on Strings	https://gtm-media.discoveryeducation.com/videos/DSC/data/PHYS_Motion_NewtonsThirdLawMotion_TeacherHOL_FINAL_JMS_SRM_NEW_rev.pdf
SC.912.P.12.3	Interpret and apply Newton's three laws of motion.	Applying Newton's Laws of Motion Energy, Force, and Motion > Motion > Applying Newton's Laws of Motion > Explore > Explore More Resources >Exploration: Applying Newton's Laws of Motion	https://app.discoveryeducation.com/player/view/assetGuid/0d64b22c-d653-4392-a041-13f6ebe03f8d
SC.912.P.12.4	Describe how the gravitational force between two objects depends on their masses and the distance between them.	Gravity Energy, Force and Motion > Force > Gravity >Elaborate > Constructed Response: Gravity	https://app.discoveryeducation.com/core:assessment/science?assessmentGuid=2536f996-6888-4a15-846d-362883f86978&conceptGuid=c1810d93-c158-4e35-9ba5-0a50ca14a825&forcelightbox=true
SC.912.P.12.4	Describe how the gravitational force between two objects depends on their masses and the distance between them.	Gravity Energy, Force and Motion > Force > Gravity > Explore > Explore More Resources > Exploration > Gravity	https://app.discoveryeducation.com/player/view/assetGuid/54fd9b23-0e93-49f5-b111-fb76cc097922

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SC.912.P.12.7	Recognize that nothing travels faster than the speed of light in vacuum which is the same for all observers no matter how they or the light source are moving.	Wave Characteristics Energy, Force, and Motion > Energy > Wave Characteristics > Explore > Core interactive Text p5.	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/3ce8fdc9-8127-46e2-9cfd-20ea67aeccfc/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/c2b0eef2-5c54-4201-b01b-41b6a657f867
SC.912.P.8.1	Differentiate among the four states of matter.	Chemical and Physical Properties and Changes Matter > Behavior of Matter > Chemical and Physical Properties and Changes > Explore > Core Interactive Text p1 >Extensive and Intensive Properties	https://app.discoveryeducation.com/learn/techbook/units/750b6a64-7f96-4456-bc96-f7cbf6a232a7/concepts/b7e0a807-e678-4688-8ca0-90e35c9a55c4/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.8.1	Differentiate among the four states of matter.	Heat Energy, Force, and Motion > Energy > Heat > Explore > Core Interactive Text p4 > How Does Thermal Energy Transfer (Heat) Cause Substances to Change State	https://app.discoveryeducation.com/learn/techbook/units/8c22f8b0-2523-4489-b6cd-6262d2bb6a81/concepts/af5bec30-5086-4751-8235-659cbd4db90f/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/1a17d213-8797-4b9b-bcdc-7cf11f25d509
SC.912.P.8.1	Differentiate among the four states of matter.	Classification of Matter Matter > Behavior of Matter > Classification of Matter > Explore > Core Interactive Text p1 >The Four States of Matter	https://app.discoveryeducation.com/learn/techbook/units/750b6a64-7f96-4456-bc96-f7cbf6a232a7/concepts/15206787-c5a4-4506-b014-82e1d56d8057/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.8.11	Relate acidity and basicity to hydronium and hydroxyl ion concentration and pH.	Acids Bases and Salts Chemical Properties and Changes > Water and Solutions > Acids Bases and Salts > Explore >Core Interactive Text p1 >Acid and Base Theories	https://app.discoveryeducation.com/learn/techbook/units/23456a3b-039b-4643-8911-e94ee5c5e112/concepts/f2737116-86ba-4eab-95ed-06ad42a956f5/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/442ee835-c4ef-4a5d-bdb9-964358a70a93
SC.912.P.8.11	Relate acidity and basicity to hydronium and hydroxyl ion concentration and pH.	Acids Bases and Salts Chemical Properties and Changes > Water and Solutions > Acids, Bases and Salts > Explore > Core Interactive Text p7 > What are pH and pOH	https://app.discoveryeducation.com/learn/techbook/units/23456a3b-039b-4643-8911-e94ee5c5e112/concepts/f2737116-86ba-4eab-95ed-06ad42a956f5/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/fe32f942-72f5-4a50-96b9-46b680c54e4f

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SC.912.P.8.2	Differentiate between physical and chemical properties and physical and chemical changes of matter.	Chemical and Physical Properties and Changes Matter > Behavior of Matter > Chemical and Physical Properties and Changes > Explore > Core Interactive Text p1 > Physical and Chemical Properties	https://app.discoveryeducation.com/learn/techbook/units/750b6a64-7f96-4456-bc96-f7cbf6a232a7/concepts/b7e0a807-e678-4688-8ca0-90e35c9a55c4/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.8.2	Differentiate between physical and chemical properties and physical and chemical changes of matter.	Chemical and Physical Properties and Changes Matter > Behavior 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.	Chemical and Physical Properties and Changes Matter > Behavior 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.8.4	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.	Parts of the Atom Matter > Understanding Atoms > Parts of the Atom > Explore > Core Interactive Text p1.> Protons, Neutrons and Electrons	https://app.discoveryeducation.com/learn/techbook/units/8e63b3c8-2c95-4b06-b74d-0e4c2f99e56c/concepts/b6933f2e-81d6-4b36-8f1f-0bf8399d2863/tabs/759da9a7-2edf-4cde-9515-7081ca990764

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SC.912.P.8.5	Relate properties of atoms and their position in the periodic table to the arrangement of their electrons.	Periodic Trends Chemical Properties and Changes > Introducing the Periodic Table > Periodic Trends > Explore > Core Interactive Text p2 > How can the observed periodic trends in reactivity of the elements be explained?	https://app.discoveryeducation.com/learn/techbook/units/aa596fc3-8856-4395-886f-5e368379fc60/concepts/c29850a7-4557-4bab-bddc-866c2ce9dd35/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/a927fe34-a7ed-4e99-92f9-12e3252ab9d4
SC.912.P.8.5	Relate properties of atoms and their position in the periodic table to the arrangement of their electrons.	Structure of the Periodic Table Chemical Properties and Changes > Introducing the Periodic Table > Structure of the Periodic Table > Explore > Core Interactive Text p1 > Metals	https://app.discoveryeducation.com/learn/techbook/units/aa596fc3-8856-4395-886f-5e368379fc60/concepts/8148163a-3023-442b-b1bb-d7b65aef23c5/tabs/759da9a7-2edf-4cde-9515-7081ca990764
SC.912.P.8.7	Interpret formula representations of molecules and compounds in terms of composition and structure.	Chemical Reactions and Equations Chemical Properties and Changes > Chemical Reactions and Equations > Chemical Reactions and Equations > Explore > Explore More Resources > Exploration: Chemical reactions	https://app.discoveryeducation.com/player/view/assetGuid/588ec292-4267-4818-8ab7-68bd8eb9af21
SC.912.P.8.7	Interpret formula representations of molecules and compounds in terms of composition and structure.	Chemical Reactions and Equations Chemical Properties and Changes > Chemical Reactions and Equations > Chemical Reactions and Equations > Explore > Core Interactive Text p3 > Writing and Balancing Chemical Equations	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/95b34eaf-0130-42b8-89dd-0d0cbf276c1e/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/204289e7-a828-49f1-8b4f-3d99c472de0c

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SC.912.P.8.7	Interpret formula representations of molecules and compounds in terms of composition and structure.	Water Chemical Properties and Changes > Water and Solutions > Water > Explore> Core Interactive Text	https://app.discoveryeducation.com/learn/techbook/units/23456a3b-039b-4643-8911-e94ee5c5e112/concepts/2225f6bb-6cb9-411d-b24c-51570e87001e/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.	Chemical Reactions and Equations Chemical Properties and Changes > Chemical Reactions and Equations > Chemical Reactions and Equations > Explore >Core Interactive Text p1 > What are the five types of chemical reactions?	https://app.discoveryeducation.com/learn/techbook/units/61627308-85da-43f8-9d38-19ef813b50fb/concepts/95b34eaf-0130-42b8-89dd-0d0cbf276c1e/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/137eb4b3-575f-4c83-a539-cf8066cc22d3
SC.912.P.8.8	Characterize types of chemical reactions, for example: redox, acid-base, synthesis, and single and double replacement reactions.	Acids Bases and Salts Chemical Properties and Changes > Water and Solutions > Acids, Bases and Salts > Explore > Core Interactive Text p6 > Buffers and Neutralization	https://app.discoveryeducation.com/learn/techbook/units/23456a3b-039b-4643-8911-e94ee5c5e112/concepts/f2737116-86ba-4eab-95ed-06ad42a956f5/tabs/759da9a7-2edf-4cde-9515-7081ca990764/pages/237e088f-cc95-4b18-b4ab-4c8524894276