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Bid 3432

INSTRUCTIONAL MATERIALS ADMINISTRATOR

Recommendation

Yes

Comments: The text covers all of the curriculum standards although there are some I felt could have been better supported or addressed in a deeper fashion. There are lab activities embedded and opportunities for extension. The layout and organization was pleasing to the eye, good use of visuals. The math that is included in the text is beneficial. I would use this text. I consider a text book just one of my many tools not the be all end all that I teach from verbatim. This would be a good tool to have as a resource. There could be more tools to help the special needs learners and ELL students.

Material for Review

Course: Marine Science 1 (2002500)

Title: Marine Science: Marine Biology and Oceanography, Edition: 3

Copyright: 2018

Author: Thomas F. Greene Grade Level: 9 - 12

Content

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To answer each item, select the appropriate rating from the following scale:

- 5 VERY GOOD ALIGNMENT
- 4 GOOD ALIGNMENT
- 3 FAIR ALIGNMENT
- 2 POOR ALIGNMENT
- 1 VERY POOR/NO ALIGNMENT

Upon completion of all Areas of Review, the Recommendation link will become available with a record of how you scored each section of the evaluation.

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- A. Alignment with curriculum1. A. The content aligns with the state's standards and benchmarks for subject, grade level and learning
 - VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification:

All the standards are addressed.

2. A. The content is written to the correct skill level of the standards and benchmarks in the course.

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● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
The standards appear to be at the correct skill level.
3. A. The materials are adaptable and useful for classroom instruction.
● VERY GOOD ALIGNMENT ☐ GOOD ALIGNMENT ☐ FAIR ALIGNMENT ☐ POOR ALIGNMENT ☐ VERY POOR/NO ALIGNMENT Justification: The labs and activities are very useful.
B. Level of Treatment4. B. The materials provide sufficient details for students to understand the significance of topics and events.
O VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT
Justification: Some things are treated with more detail than others, which is understandable but there were times I felt as if the text was racing through a topic without enough elaboration.
5. B. The level (complexity or difficulty) of the treatment of content matches the standards.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: They are aligned.
6. B. The level (complexity or difficulty) of the treatment of content matches the student abilities and grade level.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: There are areas that seem to easy or simplified.
7. B. The level (complexity or difficulty) of the treatment of content matches the time period allowed for teaching.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT
Justification: The text and the curriculum can be covered in a school year. Some balancing of supporting activities may have to occur due to time limits but this is always the case.
C. Expertise for Content Development 8. C. The primary and secondary sources cited in the materials reflect expert information for the subject.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: There was a team of contributors.
9. C. The primary and secondary sources contribute to the quality of the content in the materials.
● VERY GOOD ALIGNMENT ☐ GOOD ALIGNMENT ☐ FAIR ALIGNMENT ☐ POOR ALIGNMENT ☐ VERY POOR/NO ALIGNMENT Justification: There are many sources woven through out the text.
D. Accuracy of Content10. D. The content is presented accurately. (Material should be devoid of typographical or visual errors).
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
I did not note any error and they text has a clean pleasing appearance.
11. D. The content of the material is presented objectively. (Material should be free of bias and contradictions and is noninflammatory in nature).
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: I did not note any bias or contradictions.
12. D. The content of the material is representative of the discipline? (Material should include prevailing theories, concepts, standards, and models used with the subject area).
● VERY GOOD ALIGNMENT ☐ GOOD ALIGNMENT ☐ FAIR ALIGNMENT ☐ POOR ALIGNMENT ☐ VERY POOR/NO ALIGNMENT Justification: Covers the main topics of the course.
13. D. The content of the material is factual accurate. (Materials should be free of mistakes and inconsistencies).
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Is factual in nature.
E. Currency of Content14. E. The content is up-to-date according to current research and standards of practice.

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● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: It is current.
15. E. The content is presented to the curriculum, standards, and benchmarks in an appropriate and relevant context.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: The content covers the standards and is relevant.
16. E. The content is presented in an appropriate and relevant context for the intended learners.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: There could be more suggestions for special needs learners.
F. Authenticity of Content17. F. The content includes connections to life in a context that is meaningful to students.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Context is fully meaningful to life and students.
18. F. The material includes interdisciplinary connections which are intended to make the content meaningful to students.
● VERY GOOD ALIGNMENT ☐ GOOD ALIGNMENT ☐ FAIR ALIGNMENT ☐ POOR ALIGNMENT ☐ VERY POOR/NO ALIGNMENT Justification: It integrate different sciences and includes activities that support math and language standards and practices.
G. Multicultural Representation 19. G. The portrayal of gender, ethnicity, age, work situations, cultural, religious, physical, and various social
groups are fair and unbiased. (Please explain any unfair or biased portrayals in the comments section).
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: There is not much along these lines in this text. There are few pictures of humans (understandably) but the majority of people in photos are white.
H. Humanity and Compassion 20. H. The materials portray people and animals with compassion, sympathy, and consideration of their needs and values and exclude hard-core pornography and inhumane treatment. (An exception may be necessary for units covering animal welfare).
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: This text exhibits compassion and value for living things.
21. In general, is the content of the benchmarks and standards for this course covered in the material.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: They standards are covered some better than others but all are addressed.

Presentation

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A. Comprehensiveness of Student and Teacher Resources 1. A. The comprehensiveness of the student resources address the targeted learning outcomes without requiring the teacher to prepare additional teaching materials for the course.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT
Justification: There are multiple activities for most of the learning outcomes. The lab activities are good and relevant.
B. Alignment of Instructional Components 2. B. All components of the major tool align with the curriculum and each other.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: The book aligns with the curriculum not in order but in content.
C. Organization of Instructional Materials3. C. The materials are consistent and logical organization of the content for the subject area.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
This is subjective but a teacher can teach out of order of chapter sequence, therefore this really doesn't matter so much.
D. Readability of Instructional Materials 4. D. Narrative and visuals engage students in reading or listening as well as in understanding of the content at a level appropriate to the students' abilities.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: The text is easy to read and understand and there is good use of visuals. There are places where I felt there could be more visuals. Overall, I felt the text was a little to easy to read but with many low level readers this may be a good thing but I prefer to have harder text and bring the kids up to that level, maybe more of a mixture.
E. Pacing of Content 5. E. The amount of content presented at one time or the pace at which it is presented must be of a size or rate that allows students to perceive and understand it.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: I think the pacing of the text is good but sometimes the topics covered are too brief, the author goes to fast in some areas and doesn't go deep enough. This is an area where the teacher could go deeper on his/ her own.
Accessibility 6. The material contains presentation, navigation, study tool and assistive supports that aid students, including those with disabilities, to access and interact with the material. (For assistance refer to the answers on the UDL questionnaire).
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: They do not have Braille but can be researched if needed.
7. In general, how well does the submission satisfy PRESENTATION requirements? (The comments should support your responses to the questions in the Presentation section).
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: All the categories of presentation were rated as good alignment so overall.

Learning

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the 2017-18 Florida State Adoption of Instructional Materials.
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A. Motivational Strategies 1. A. Instructional materials include features to maintain learner motivation.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
The book is easy to read, with ample visuals and multiple activities to support reader interest.
B. Teaching a Few "Big Ideas"2. B. Instructional materials thoroughly teach a few important ideas, concepts, or themes.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
The important themes covered are scientific method, life forms, ecology, and physical aspects of the ocean.
C. Explicit Instruction3. C. The materials contain clear statements of information and outcomes.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: The texts are clearly written and well organized and have clear outcomes.
D. Guidance and Support 4. D. The materials provide guidance and support to help students safely and successfully become more independent learners and thinkers.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
There are certain questions and activities that promote independent thinking though out the text.
5. D. Guidance and support must be adaptable to developmental differences and various learning styles.
VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Different learning styles are addressed by the opportunities provided in the book.
E. Active Participation of Students 6. E. The materials engage the physical and mental activity of students during the learning process.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: All materials involve mental activity and the labs and some extension activites involve physical activity.
7. E. Rate how well the materials include organized activities that are logical extensions of content, goals, and objectives.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
There are some activities and questions strewn throughout the text that allow for extension. Their format varies.
F. Targeted Instructional Strategies 8. F. Instructional materials include the strategies known to be successful for teaching the learning outcomes targeted in the curriculum requirements.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: The teacher text provides clear information on strategies.
9. F. The instructional strategies incorporated in the materials are effective in teaching the targeted outcomes.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
The strategies offered are multiple and effective for teaching the outcomes such as various handouts, labs, activities and questions.
G. Targeted Assessment Strategies 10. G. The materials correlate assessment strategies to the desired learning outcomes.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
There are many assessment opportunities and they align with targeted outcomes.

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11. G. the assessment strategies incorporated in the materials are effective in assessing the learners' performance with regard to the targeted outcomes.
● VERY GOOD ALIGNMENT ☐ GOOD ALIGNMENT ☐ FAIR ALIGNMENT ☐ POOR ALIGNMENT ☐ VERY POOR/NO ALIGNMENT Justification:
The formatting of the assessments seems as if it would be effective to measure learning that has occurred and the assessments are written in a clear manner.
Universal Design for Learning12. This submission incorporates strategies, materials, activities, etc., that consider the needs of all students.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
There are no noted areas of suggested strategies for special needs students.
Mathematical Practice13. Do you observe the appropriate application of Mathematical Practices (MP) as applicable?
○ VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT JUSTIFICATION:
There are multiple opportunities for math applications through out the text.
14. In general, does the submission satisfy LEARNING requirements? (The comments should support your responses to the questions in the Learning section.)
○ VERY GOOD ALIGNMENT ◎ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT
Justification: The learning requirements may actually lean between very good and good. I gave several very good's and only one fair. I find this text very learner friendly.
Standards
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When looking at standards alignment reviewers should consider not only the robustness of the standard coverage but also the content complexity (depth of knowledge level) if appropriate. More information on content complexity as it relates to Florida standards can be found at: http://www.cpalms.org/Uploads/docs/CPALMS/initiatives/contentcomplexity/CPALMS codefinitions 140711.pdf For example, if the standard is marked as a level 3 (strategic reasoning and complex thinking) then the materials coverage should reflect this. If
the materials coverage is only sufficient to allow for recall (level 1) then this should be reflected in the points assigned.
1. SC.912.E.7.9: Cite evidence that the ocean has had a significant influence on climate change by absorbing, storing, and moving heat, carbon, and water.
Remarks/Examples: Explain how the accordance act as sources/sinks of heat energy, store carbon disvide meetly as dissolved HCO3, and CaCO3 as precipitate or
Explain how the oceans act as sources/sinks of heat energy, store carbon dioxide mostly as dissolved HCO3- and CaCO3 as precipitate or biogenic carbonate deposits, which have an impact on climate change.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT

Multiple concepts covered on how the ocean interacts with the atmosphere. Good lab activity on El Nino and other supporting activities.

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2. SC.912.L.14.6: Explain the significance of genetic factors, environmental factors, and pathogenic agents to health from the perspectives of both individual and public health.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Only a couple of brief areas addressed in text.
3. SC.912.L.15.13: Describe the conditions required for natural selection, including: overproduction of offspring, inherited variation, and the struggle to survive, which result in differential reproductive success.
Remarks/Examples:
Annually assessed on Biology EOC. Also assesses SC.912.L.15.14, SC.912.L.15.15, and SC.912.N.1.3.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: It is covered but in a brief manner.
4. SC.912.L.17.1: Discuss the characteristics of populations, such as number of individuals, age structure, density, and pattern of distribution.
Remarks/Examples:
Florida Standards Connections: MAFS.K12.MP.7: Look for and make use of structure.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
All components of this standard are described and some good visuals are provided.
5. SC.912.L.17.2: Explain the general distribution of life in aquatic systems as a function of chemistry, geography, light, depth, salinity, and temperature.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Coverage is wide spread and there are many supporting items.
Coverage is wide spread and there are many supporting items.
6. SC.912.L.17.3: Discuss how various oceanic and freshwater processes, such as currents, tides, and waves, affect the abundance of aquatic organisms.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: The topic was well covered with examples of affects on organisms embedded in text. There are four supporting items.
7. SC.912.L.17.4: Describe changes in ecosystems resulting from seasonal variations, climate change and succession.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
it could be more in depth with climate change and succession.
8. SC.912.L.17.6: Compare and contrast the relationships among organisms, including predation, parasitism, competition, commensalism, and mutualism.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT
Justification: The relationship were described and examples provided. Photos embedded in the text would have been preferable to references to photos/figures on other pages.
9. SC.912.L.17.7: Characterize the biotic and abiotic components that define freshwater systems, marine systems and terrestrial systems.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT
Justification: A great deal of coverage throughout with many supporting items.
10. SC.912.L.17.8 : Recognize the consequences of the losses of biodiversity due to catastrophic events, climate changes, human activity, and the introduction of invasive, non-native species.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: A few supporting activities.
11. SC.912.L.17.9: Use a food web to identify and distinguish producers, consumers, and decomposers. Explain the pathway of energy transfer through trophic levels and the reduction of available energy at successive trophic levels.
Remarks/Examples: Annually assessed on Biology EOC. Also assesses SC.912.E.7.1.

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○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: The part of the text describing the transfer of 10% of the energy at each level and the loss of 90% could have been explained more clearly and or provide a better visual diagram.
12. SC.912.L.17.10: Diagram and explain the biogeochemical cycles of an ecosystem, including water, carbon, and nitrogen cycle.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: The cycles are explained and diagrammed.
13. SC.912.L.17.11: Evaluate the costs and benefits of renewable and nonrenewable resources, such as water, energy, fossil fuels, wildlife, and forests.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ● POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: I see the energy flow but not really renewable and nonrenewable resources.
14. SC.912.L.17.16: Discuss the large-scale environmental impacts resulting from human activity, including waste spills, oil spills, runoff, greenhouse gases, ozone depletion, and surface and groundwater pollution.
Remarks/Examples: Integrate HE.912.C.1.3. Evaluate how environment and personal health are interrelated and, HE.912.C.1.5. Analyze strategies for prevention, detection, and treatment of communicable and chronic diseases.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Several supporting items.
15. 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.
Remarks/Examples: Annually assessed on Biology EOC.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: The nature of water is well covered.
16. 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:
 Pose questions about the natural world, (Articulate the purpose of the investigation and identify the relevant scientific concepts). Conduct systematic observations, (Write procedures that are clear and replicable. Identify observables and examine relationships between test (independent) variable and outcome (dependent) variable. Employ appropriate methods for accurate and consistent observations; conduct and record measurements at appropriate levels of precision. Follow safety guidelines). Examine books and other sources of information to see what is already known,
4. 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).5. Plan investigations, (Design and evaluate a scientific investigation).
6. 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).
7. Pose answers, explanations, or descriptions of events,8. Generate explanations that explicate or describe natural phenomena (inferences),
9. Use appropriate evidence and reasoning to justify these explanations to others, 10. Communicate results of scientific investigations, and
11. Evaluate the merits of the explanations produced by others.
Remarks/Examples: Florida Standards Connections for 6-12 Literacy in Science
For Students in Grades 9-10
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.

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LAFS.910.RST.1.3 Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks attending to special cases or exceptions defined in the text. 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. LAFS.910.WHST.1.2 Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes. LAFS.910.WHST.3.9 Draw evidence from informational texts to support analysis, reflection, and research. For Students in Grades 11-12 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. 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. 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. LAFS.1112.WHST.1.2 Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes. LAFS.1112.WHST.3.9 Draw evidence from informational texts to support analysis, reflection, and research. Florida Standards Connections for Mathematical Practices MAFS.K12.MP.1: Make sense of problems and persevere in solving them. MAFS.K12.MP.2: Reason abstractly and quantitatively. MAFS.K12.MP.3: Construct viable arguments and critique the reasoning of others. [Viable arguments include evidence.] MAFS.K12.MP.4: Model with mathematics. MAFS.K12.MP.5: Use appropriate tools strategically. MAFS.K12.MP.6: Attend to precision. MAFS.K12.MP.7: Look for and make use of structure. MAFS.K12.MP.8: Look for and express regularity in repeated reasoning. ○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT This is address through multiple pages and the scientific method process. 17. SC.912.N.1.2: Describe and explain what characterizes science and its methods. Remarks/Examples: Science is characterized by empirical observations, testable questions, formation of hypotheses, and experimentation that results in stable and replicable results, logical reasoning, and coherent theoretical constructs. Florida Standards Connections: MAFS.K12.MP.3: Construct viable arguments and critique the reasoning of others. ○ VERY GOOD ALIGNMENT ◎ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Uses experimental example. 18. 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. Remarks/Examples: Assess the reliability of data and identify reasons for inconsistent results, such as sources of error or uncontrolled conditions.

Florida Standards Connections: MAFS.K12.MP.2: Reason abstractly and quantitatively MAFS.K12.MP.3: Construct viable arguments and

critique the reasoning of others

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○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Uses experimental example.
19. SC.912.N.1.4: Identify sources of information and assess their reliability according to the strict standards of scientific investigation.
Remarks/Examples: Read, interpret, and examine the credibility and validity of scientific claims in different sources of information, such as scientific articles, advertisements, or media stories. Strict standards of science include controlled variables, sufficient sample size, replication of results, empirical and measurable evidence, and the concept of falsification.
Florida Standards Connections: LAFS.910.RST.1.1 / LAFS.1112.RST.1.1.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Uses experimental example.
20. 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.
Remarks/Examples: Recognize that contributions to science can be made and have been made by people from all over the world.
○ VERY GOOD ALIGNMENT ® GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT
Justification: Uses experimental example.
21. SC.912.N.1.6 : Describe how scientific inferences are drawn from scientific observations and provide examples from the content being studied.
Remarks/Examples: Collect data/evidence and use tables/graphs to draw conclusions and make inferences based on patterns or trends in the data.
Florida Standards Connections: MAFS.K12.MP.1: Make sense of problems and persevere in solving them.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Uses experimental example.
22. SC.912.N.1.7: Recognize the role of creativity in constructing scientific questions, methods and explanations.
Remarks/Examples:
Work through difficult problems using creativity, and critical and analytical thinking in problem solving (e.g. convergent versus divergent thinking and creativity in problem solving).
Florida Standards Connections: MAFS.K12.MP.1: Make sense of problems and persevere in solving them and MAFS.K12.MP.2: Reason abstractly and quantitatively.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Only one reference to this sited , but does align to standard.
23. 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).
Remarks/Examples: Science is the systematic and organized inquiry that is derived from observations and experimentation that can be verified or tested by further investigation to explain natural phenomena (e.g. Science is testable, pseudo-science is not science seeks falsifications, pseudo-science seeks confirmations.)
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Sites examples when covering nature of science.
24. 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.

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Remarks/Examples:
Recognize that ideas with the most durable explanatory power become established theories, but scientific explanations are continually subjected to change in the face of new evidence.
Florida Standards Connections: MAFS.K12.MP.1: Make sense of problems and persevere in solving them MAFS.K12.MP.3: Construct viable arguments and critique the reasoning of others.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Sites examples when covering nature of science.
25. 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.
Remarks/Examples: Recognize that scientific questions, observations, and conclusions may be influenced by the existing state of scientific knowledge, the social and cultural context of the researcher, and the observer's experiences and expectations. Identify possible bias in qualitative and quantitative data analysis.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Many examples text.
26. 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.
Remarks/Examples: Explain that a scientific theory is a well-tested hypothesis supported by a preponderance of empirical evidence.
Florida Standards Connections: MAFS.K12.MP.1: Make sense of problems and persevere in solving them and, MAFS.K12.MP.3: Construct viable arguments and critique the reasoning of others.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Several examples supplied.
27. SC.912.N.3.5: Describe the function of models in science, and identify the wide range of models used in science.
Remarks/Examples:
Describe how models are used by scientists to explain observations of nature.
Florida Standards Connections: MAFS.K12.MP.4: Model with mathematics.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Addressed with nature of science.
28. SC.912.N.4.1 : Explain how scientific knowledge and reasoning provide an empirically-based perspective to inform society's decision making.
Remarks/Examples: Recognize that no single universal step-by-step scientific method captures the complexity of doing science. A number of shared values and perspectives characterize a scientific approach.
MAFS.K12.MP.1: Make sense of problems and persevere in solving them, and MAFS.K12.MP.2: Reason abstractly and quantitatively.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Addressed within nature of science.
29. 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.
Remarks/Examples: Identify examples of technologies, objects, and processes that have been modified to advance society, and explain why and how they were

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modified. Discuss ethics in scientific research to advance society (e.g. global climate change, historical development of medicine and medical practices).
Florida Standards Connections: MAFS.K12.MP.1: Make sense of problems and persevere in solving them, and MAFS.K12.MP.2: Reason abstractly and quantitatively.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: This is addressed within nature of science but could be extended in other areas.
30. SC.912.P.10.2: Explore the Law of Conservation of Energy by differentiating among open, closed, and isolated systems and explain that the total energy in an isolated system is a conserved quantity.
Remarks/Examples: Use calorimetry to illustrate conservation of energy. Differentiate between the different types of systems and solve problems involving conservation of energy in simple systems (Physics). Explain how conservation of energy is important in chemical reactions with bond formation and bond breaking (Chemistry).
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Addressed once.
31. SC.912.P.10.20: Describe the measurable properties of waves and explain the relationships among them and how these properties change when the wave moves from one medium to another.
Remarks/Examples: Describe the measurable properties of waves (velocity, frequency, wavelength, amplitude, period, reflection and refraction) and explain the relationships among them. Recognize that the source of all waves is a vibration and waves carry energy from one place to another. Distinguish between transverse and longitudinal waves in mechanical media, such as springs and ropes, and on the earth (seismic waves). Describe sound as a longitudinal wave whose speed depends on the properties of the medium in which it propagates.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: There is detailed coverage of waves but more as they pertain to ocean.
32. 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.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: A couple of student activities, five teacher activities.
33. 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.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Nothing in student text but six items in teacher text.
34. 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.
● VERY GOOD ALIGNMENT ☐ GOOD ALIGNMENT ☐ FAIR ALIGNMENT ☐ POOR ALIGNMENT ☐ VERY POOR/NO ALIGNMENT Justification: Nine items in student text, eleven items in teacher text.
35. 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.
○ VERY GOOD ALIGNMENT ◎ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Five teacher text items.
36. LAFS.1112.RST.2.5: Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Two teacher text items.

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37. 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.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Two teacher text items.
38. 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.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ● VERY POOR/NO ALIGNMENT Justification: Only one teacher item in text; this standard could have more support.
39. 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.
○ VERY GOOD ALIGNMENT ◎ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Four items in teacher text, one in student.
40. 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.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Two teacher text items.
41. 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.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Four items in each text.
42. 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.
 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. b. Work with peers to promote civil, democratic discussions and decision-making, set clear goals and deadlines, and establish individual roles as needed.
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.
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.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Multiple items in teacher text.
43. 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.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Several items in teacher text.
44. 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.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Several items in teacher text.
45. 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.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT

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Justification: Several items in teacher text.
46. 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.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ● POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
Only a couple items, digital media is important in today's society.
47. LAFS.1112.WHST.1.1: Write arguments focused on discipline-specific content.
 a. Introduce precise, knowledgeable claim(s), establish the significance of the claim(s), distinguish the claim(s) from alternate or opposing claims, and create an organization that logically sequences the claim(s), counterclaims, reasons, and evidence. b. Develop claim(s) and counterclaims fairly and thoroughly, supplying the most relevant data and evidence for each while pointing out the strengths and limitations of both claim(s) and counterclaims in a discipline-appropriate form that anticipates the audience's knowledge level,
concerns, values, and possible biases.
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.
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. e. Provide a concluding statement or section that follows from or supports the argument presented.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ● POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Only two writing items in teacher text.
48. LAFS.1112.WHST.1.2: Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
a. Introduce a topic and organize complex ideas, concepts, and information so that each new element builds on that which precedes it to create a unified whole; include formatting (e.g., headings), graphics (e.g., figures, tables), and multimedia when useful to aiding comprehension.
b. Develop the topic thoroughly by selecting the most significant and relevant facts, extended definitions, concrete details, quotations, or other
information and examples appropriate to the audience's knowledge of the topic. c. Use varied transitions and sentence structures to link the major sections of the text, create cohesion, and clarify the relationships among
complex ideas and concepts.
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. 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).
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Six items/one essay.
49. LAFS.1112.WHST.2.4: Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ● POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
More writing skills could be developed with science.
50. 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.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ● POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: This is a skill that could be utilized more in science.
51. 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.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Only a couple of supporting items.
52. 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.

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○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Only a couple of supporting items.
53. 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.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Only a couple of supporting items.
54. LAFS.1112.WHST.3.9: Draw evidence from informational texts to support analysis, reflection, and research.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Several supporting items.
55. 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.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Only a couple of supporting items. Reflection could be incorporated more frequently.
56. 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.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Ch 17, three supporting activities.
57. 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.
 a. Graph linear and quadratic functions and show intercepts, maxima, and minima. b. Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions. c. Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior. d. Graph rational functions, identifying zeros and asymptotes when suitable factorizations are available, and showing end behavior. e. Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude, and using phase shift.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Three investigations and two graphing exercises.
58. 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.
● VERY GOOD ALIGNMENT ☐ GOOD ALIGNMENT ☐ FAIR ALIGNMENT ☐ POOR ALIGNMENT ☐ VERY POOR/NO ALIGNMENT Justification: Eight plus activities to support.
59. MAFS.912.N-Q.1.3: Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.
○ VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Three activities.
60. MAFS.912.S-ID.1.1: Represent data with plots on the real number line (dot plots, histograms, and box plots).
Remarks/Examples: In grades 6 – 8, students describe center and spread in a data distribution. Here they choose a summary statistic appropriate to the characteristics of the data distribution, such as the shape of the distribution or the existence of extreme data points.
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Five support activities.

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	.912.S-ID.1.2: Use statistics appropriate to the shape of the data distribution to compare center (median, mean) and spread tile range, standard deviation) of two or more different data sets.
Remarks/	/Examples:
•	6 – 8, students describe center and spread in a data distribution. Here they choose a summary statistic appropriate to the stics of the data distribution, such as the shape of the distribution or the existence of extreme data points.
Justific	ERY GOOD ALIGNMENT O GOOD ALIGNMENT FAIR ALIGNMENT O POOR ALIGNMENT O VERY POOR/NO ALIGNMENT cation: upporting activity.
	3.912.S-ID.1.3: Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of lata points (outliers).
	Examples: differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points
Justific	ERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT cation: upporting activity.
	(12.ELL.SC.1: English language learners communicate information, ideas and concepts necessary for academic success in the rea of Science.
Justific	ERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT cation: e supporting items.
64. ELD.	(12.ELL.SI.1: English language learners communicate for social and instructional purposes within the school setting.
Justific	ERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT cation: le supporting items.