INSTRUCTIONAL MATERIALS ADMINISTRATOR

BID 3252

Recommendation

Yes

Comments: Although there are standards that are not addressed directly, The standards for science are all addressed directly. The Language arts standards are not directly addressed but if the resources are being utilized by the teacher there would be a direct correlation with those particular standards. Strengths: covers current content in regards to marine science, it has multiple graphs and math connections, multiple discipline connections as well as intercurricular connections with the resources. There is a variety of learning styles addressed along with multiple IEP accommodations.

Weakness: There is no direct link to the multiple Language arts standards.

Material for Review

Course: Marine Science 1 (2002500)

Title: Oceanography: An Invitation to Marine Science, Edition: 9

Copyright: 2016
Author: Garrison
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

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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 outcomes.

VERY GOOD ALIGNMENT	O GOOD ALIGNMENT	FAIR ALIGNMENT	O POOR ALIGNMENT	VERY POOR/NO ALIGNMENT
Justification:				

All standards are covered by this book and it is at a level consistent with the rigor of the standards

2. A. The content is written to the correct skill level of the standards and benchmarks in the course.
● VERY GOOD ALIGNMENT
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 website has multiple features that will enhance classroom instruction. How do we know section is a great way to start discussion and ADI learning. The online learning section will be a great tool for assessments or activities and case studies
B. Level of Treatment4. B. The materials provide sufficient details for students to understand the significance of topics and events.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
The materials is excellent for students to gather a good grasp of the content however it may prove difficult for ELL and struggling readers. However the online tools cold provide the assistance such as the flash cards, note taking tools or national geographic enhancements
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:
Content is at the rigor necessary so that the standards are not brought down but are brought up to the standard
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:
The level of difficulty is rigorous, but not to the point of being too difficult for students to use.
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 time period allowed there is more than enough content to use to be able to meet the demands of the pacing calendar.
C. Expertise for Content Development8. C. The primary and secondary sources cited in the materials reflect expert information for the subject.
● VERY GOOD ALIGNMENT
The content is current, up to date and using experts from around the world such as National Geographic and NOAA
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:
Although the book is nice and well put together, the online resources for the support will help not only students but teachers
D. Accuracy of Content 10. 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: From the samplings I looked at from each chapter, there were no visual errors or mistakes.
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: There did not appear to be any bias or inflammatory content
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
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: During my observations. I did not come across any mistakes or inconsistencies in the material. In fact it appeared to have very current

information.

E. Currency of Content14. E. The content is up-to-date according to current research and standards of practice.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT
Justification: Content is current and up to date however pictures and graphics could be more up to date. Some of the graphics are as old as 2011. The presentation however did state that they have more current research on their website tied to the same units as the book.
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 is well presented 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:
Very good for the intended learners however it could be a bit more difficult for the struggling student
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: All chapters start with a podcast from real world scientists
18. F. The material includes interdisciplinary connections which are intended to make the content meaningful to students.
● VERY GOOD ALIGNMENT
Multiples are disciplines are covered within the resources.
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 does not appear unfair or biased portrayals images or content
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: There are no inhumane images or poor value images within the text
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: ☐ Overall this is a strong resource for teacher and students. It aligns well with the standards and benchmarks to assist in aiding the students for this particular course.

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: The website appears based on the presentation would not need additional resources however it would need to be structured into a lesson plan.
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: Based on the major tools and a comparison of the materials, They are properly aligned
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: There is a connected flow for the material, it flows a logical progression.
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 OF SAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Reading of the material could be problematic to ELL and struggling students however the images, descriptions and website companion help to adjust for these concerns.
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: Chapters are small and easy to navigate however, with double columns it could appear overwhelming to students.
Accessibility6. 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: Multiple presentation and navigation supports are available including braille, text to sign language, speech to text and magnification
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: Overall, this does meet the presentation requirements very well.

Learning

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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 web based items can create a motivated learning environment. The podcasts and case students could be very engaging.
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: Although there are many small sections, there is a connections between a few overreaching themes.
C. Explicit Instruction3. C. The materials contain clear statements of information and outcomes.
● VERY GOOD ALIGNMENT
There are key concepts at the beginning of every chapter, concept checks to now what you should know at this point, chapter in review, student common questions with answers, and a global science watch.
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
There are why do we know and thinking beyond for images and graphs to allow students to extend their own learning.
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: There are multiple areas in which the resources have adjusted for learning. Not taking, highlighting, braille, speech to text, text to speech to name a few. There are visual representations, audio representations, and online interactive tools such as flash cards and note taking
E. Active Participation of Students6. 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: The physical is limited, but the mental activities are varied and stimulating for multiple learning abilities.
7. E. Rate how well the materials include organized activities that are logical extensions of content, goals, and objectives.
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○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
The activities are organized to create and engaging start to each new section. It aligns with the goals of the unit and the key concepts.
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.
outcomes targeted in the cumculum requirements.
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
The instructional materials have utilized multiple strategies to reach all students. Insights from an explorer is one way to catch a students interest as well as the global geoscience watch and Current issues related to our everyday lives.
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 mind tap program contains activities with various strategies

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:
pre-test and post test are aligned to the key concepts covered in each unit. The geoscience watch and media connections also allow for more enrichment in the learning outcomes.
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 assessment strategies used are effective in assessing leaners performance. There is also scientific process included in each unit as how do we know and thinking beyond.
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:
The submissions does appear, based on the presentation and materials for viewing, to make every effort to assist all learners to reach an understanding of the material.
Mathematical Practice 13. Do you observe the appropriate application of Mathematical Practices (MP) as applicable?
VERY GOOD ALIGNMENT OGOOD ALIGNMENT FAIR ALIGNMENT OPOOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification:
There are measurement and conversion, graph analysis, and other calculations as per the content area.
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 overall submission does satisfy the learning requirements

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 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 Justification:
Chapters six and seven cover the material in great depth. Chapter 6 focuses on the heat energy, while chapter 7 starting at page 207 talks about gasses in sea water. Page 208 refers directly to Calcium carbonate. The bicarbonate ion is specifically discussed on pages 209-210. Both of these are addressed in chapter 18 o the environment and organisms.
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:
There are multiple connections to environmental factors in chapter 18 and according to the presentation, the mind tap web resource also has multiple section on environmental factors and the ocean
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:
Chapter 15 and 16 address natural selection, reproductive success and the struggle to survive. It is also discussed in chapter 18 on environmental factors.
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: Chapter 18 clearly connects to this particular standard.
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: Chapter 15 and 16 relate directly to this standard.
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: There are multiple chapter impacting this standards chapter 7, 8, 9, 10, 11 all correlate as well as chapter 16 on marine communities, parts of chapter 14 and chapter 13
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:
There are multiple chapters with sections dedicated to this standard. Chapter 8 has some reference, Chapter 13, 4, 15, 16 and 18
8. SC.912.L.17.6: Compare and contrast the relationships among organisms, including predation, parasitism, competition, commensalism, and mutualism.
● VERY GOOD ALIGNMENT
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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: Although it does not directly correlate the terms biotic and abiotic, it does reference these conditions in several sections however it is an indirect link where the teacher would need to make the connection

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:
This standard is addressed in multiple chapters and is connected throughout the resource.
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.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification:
This is shown in chapters 13 and 18 multiple times. There is a section on the flow of energy all on its own.
12. SC.912.L.17.10: Diagram and explain the biogeochemical cycles of an ecosystem, including water, carbon, and nitrogen cycle.
VERY GOOD ALIGNMENT OGOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification:
Section 13.7 is all about the cycling of matter within living organisms and the environment.
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:
Although it does not directly address forests, it does discuss non renewable and renewable resources as well as the costs and benefits of them. It discusses the production of freshwater from saltwater, fossil fuels and energy for alternative sources such as waves, currents, and tides.
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: There are a few small sections that align to this particular standard.
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.
Damarka (Evangalas)
Remarks/Examples: Annually assessed on Biology EOC.
■ VERY GOOD ALIGNMENT ■ GOOD ALIGNMENT ■ FAIR ALIGNMENT ■ POOR ALIGNMENT ■ VERY POOR/NO ALIGNMENT Justification:
There are two chapter that revolve around the chemistry of water. Chapter 6 however has the most focus on this particular standard
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).
3. 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.

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 Justification:

There are multiple sections within the eBook that allow for thinking beyond, there are case studies which contain all elements, there are graphs to analyze, it is tied throughout the entire resource. One example would be page 492, it allows for student to use scientific reasoning to answer a questions. Project give students the ability to pose questions and research answers. Their greener web resource has primary research articles students could use to research and reflect on.

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:
There is a section in the greener that allows for content discussions which could facilitate further research on a project. Case studies allow students to reflect on what others have researched.
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
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
Seeing what other researchers have done and worked on based on their claims gives students the opportunity to see this a particular standard in action with a result
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: Not addressed
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: Not addressed
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: Not addressed
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.

Instructional Materials Justification: Not directly addressed but indirectly 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, pseudoscience seeks confirmations.) VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Not addressed 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. 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. USERY GOOD ALIGNMENT OGOOD ALIGNMENT FAIR ALIGNMENT OPOOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Not directly addressed but indirectly 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: This is addressed in Chapter 2 the history of oceanography 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: This is also addressed in chapter 2 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.

There are graphs, images, and math connections all thought the text. Section 10.3 has multiple pieces that fit this standard

🍥 **VERY GOOD ALIGNMENT** 🔍 GOOD ALIGNMENT 🤍 FAIR ALIGNMENT 🔍 POOR ALIGNMENT 🔍 VERY POOR/NO ALIGNMENT

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 OGOOD ALIGNMENT FAIR ALIGNMENT OPOOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Case studies and insights are a great way to hit this particular standard 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 modified. Discuss ethics in scientific research to advance society (e.g. global climate change, historical development of medicine and medical 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 Multiple chapters discuss the technologies important to marine science, all the way from chapter 2 to chapter 18. From satellites to the boats used in ancient times to new coming technologies. 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: Chapters 8 through 11 directly relate to this standard. Page 286 is an example 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: The entire chapter on waves 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: Not directly addressed 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: Not directly addressed

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:
There are scenarios in which a scientist discusses the current research and there is also the opportunity to discuss the taking of measurements with different types of technology and how we use that information
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: Not directly addressed
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: Not directly addressed
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
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
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: There are multiple pieces of data to look at within the pages of the eBook this is not including the web resources as well
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
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: If they can read this book and understand the materials they have reached this standard
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: not directly addressed

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:
Multiple pieces of media available on the web resources as shown by the links in the eBook
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: Not directly addressed
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 Justification: Not directly addressed
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: Web resources
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: Not directly addressed
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: Not directly addressed

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: Not directly addressed
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: Not directly addressed
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 OGOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Green web resource has this ability
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.
VERY GOOD ALIGNMENT ■ GOOD ALIGNMENT ■ FAIR ALIGNMENT ■ POOR ALIGNMENT ■ VERY POOR/NO ALIGNMENT Justification: Mind tap and greener web resources
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: Not directly addressed
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: Not directly addressed
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: Not directly addressed
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: Not directly addressed
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

instructional Materials
Justification: Chapter on waves includes graphing
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:
multiple areas including and appendix directly relates to units, conversions and scientific notation
59. MAFS.912.N-Q.1.3: Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.
VERY GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Not directly addressed
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: Not directly addressed
61. MAFS.912.S-ID.1.2: Use statistics appropriate to the shape of the data distribution to compare center (median, mean) and spread (interquartile range, standard deviation) of two or more different data sets.
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
62. MAFS.912.S-ID.1.3: Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers).
Remarks/Examples:
Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers).
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
Multiple graphs within the text that can be interrupted
63. ELD.K12.ELL.SC.1 : English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Not directly addressed
64. ELD.K12.ELL.SI.1: English language learners communicate for social and instructional purposes within the school setting.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Not directly addressed