INSTRUCTIONAL MATERIALS ADMINISTRATOR

BID 3350

Recommendation

Yes

6/25/2018

Comments: The curriculum overall matched my expectations as I was evaluating, but on final review, the standards score does not meet the recommended score, so that is my only concern.

Material for Review

Course: M/J Physical Science (2003010)

Title: Science Bits - M/J Physical Science, Edition: 1st

Copyright: 2017

Author: International Science Teaching Foundation

Grade Level: 6 - 8

Content

Answer each item below and select the "Save" button to save your responses. You must select the "Save" button before going to another section or leaving this page to save the answers you have provided. If you are unable to complete the section, you may save your answers and come back to complete at a later time. All items must be answered for a section to be considered complete.

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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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- Additional information regarding the Content, Presentation, and Learning requirements are located in the Science K-12 Specifications for the 2017-18 Florida State Adoption of Instructional Materials.

Each set of materials submitted for adoption is evaluated based on each benchmark for that course and the Content, Presentation, and Learning items included in this rubric.

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

Almost all standards and benchmarks are met.

- 2. A. The content is written to the correct skill level of the standards and benchmarks in the course.
 - VERY GOOD ALIGNMENT
 GOOD ALIGNMENT
 FAIR ALIGNMENT
 POOR ALIGNMENT
 VERY POOR/NO ALIGNMENT
 Justification:

All activities and texts are set at the expected 8th grade standard.

3. A. The materials are adaptable and useful for classroom instru	ction.
● VERY GOOD ALIGNMENT GOOD ALIGNMENT FA Justification: The materials are well aligned with the flow of a classroom se	AIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT
•	ils for students to understand the significance of topics and events.
VERY GOOD ALIGNMENT • GOOD ALIGNMENT • FA Justification: Information is given through different media, but not more than	IR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT
5. B. The level (complexity or difficulty) of the treatment of conter	nt matches the standards.
VERY GOOD ALIGNMENT GOOD ALIGNMENT Justification: Information is presented at a grade level reading level.	AIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT
6. B. The level (complexity or difficulty) of the treatment of conter	nt matches the student abilities and grade level.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FA Justification: Information is presented at a grade level reading level.	IR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT
7. B. The level (complexity or difficulty) of the treatment of conter	at matches the time period allowed for teaching.
● VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ● FA Justification: The timing of units match what would be expected in a classor	AIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT
C. Expertise for Content Development 8. C. The primary and so subject.	econdary sources cited in the materials reflect expert information for the
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR Justification: Only primary sources are given.	ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT
9. C. The primary and secondary sources contribute to the quality	y of the content in the materials.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR Justification: Only primary sources are given.	ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT
D. Accuracy of Content10. D. The content is presented accurate	ely. (Material should be devoid of typographical or visual errors).
● VERY GOOD ALIGNMENT	AIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Ciple presented.
11. D. The content of the material is presented objectively. (Maternature).	rial should be free of bias and contradictions and is noninflammatory in
● VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ● FA Justification: Information is given without bias.	AIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT
12. D. The content of the material is representative of the discipli models used with the subject area).	ne? (Material should include prevailing theories, concepts, standards, and
■ VERY GOOD ALIGNMENT ■ GOOD ALIGNMENT ■ FALIGNMENT ■ FALIGNM	AIR ALIGNMENT O POOR ALIGNMENT VERY POOR/NO ALIGNMENT
13. D. The content of the material is factual accurate. (Materials	should be free of mistakes and inconsistencies).
● VERY GOOD ALIGNMENT	AIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT
E. Currency of Content14. E. The content is up-to-date according	ng to current research and standards of practice.
VERY GOOD ALIGNMENT GOOD ALIGNMENT Justification: Information is given using the most current theories and mode	AIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT
15. E. The content is presented to the curriculum, standards, and	

● VERY GOOD ALIGNMENT → GOOD ALIGNMENT → FAIR ALIGNMENT → POOR ALIGNMENT → VERY POOR/NO ALIGNMENT Justification: The information is relevant and appropriate for 8th grade learners.
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: The information is relevant and appropriate for 8th grade learners.
F. Authenticity of Content 17. 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: The content is connects to real life situations in the world.
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: Links to language arts, history, and mathematics are used often to link science to other disciplines.
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: Information is given without bias.
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: All information is presented appropriately without any images or media showing inappropriate treatment of people, animals, or values.
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:

Presentation

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- Additional information regarding the Content, Presentation, and Learning requirements are located in the Science K-12 Specifications for the 2017-18 Florida State Adoption of Instructional Materials.

Each set of materials submitted for adoption is evaluated based on each benchmark for that course and the Content, Presentation, and Learning items included in this rubric.

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 lessons are self paced, and do not require extra planning ore materials.
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: Most material and content of the units are aligned with Floridian state standards.
C. Organization of Instructional Materials 3. 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: the overall design and organization of the units are build around the flow of science.
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: Different forms of media are used to engage and adapt to the learner.
E. Pacing of Content5. 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: The pace of the lessons are aligned with expected learning outcomes of 8th grade students.
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:
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: The forms of media, activities, and general organization of the curriculum match what is expected in an 8th grade classroom. There is limited support features for specific learning needs, or language needs.

Learning

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 Additional information regarding the Content, Presentation, and Learning requirements are located in the Science K-12 Specifications for the 2017-18 Florida State Adoption of Instructional Materials. Each set of materials submitted for adoption is evaluated based on each benchmark for that course and the Content, Presentation, and Learning items included in this rubric. 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: Information is presented in different forms of media and activities to engage students. 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: Activities and sections of text are dedicated to limited ideas to keep focus, and not confuse the user. 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: Activities have a clear and expected outcome for the user to reach. D. Guidance and Support4. D. The materials provide guidance and support to help students safely and successfully become more independent learners and thinkers. USERY GOOD ALIGNMENT OGOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: The information is presented well, but will continue if the student is answering incorrectly. 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: Only Spanish support is give. 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 Activities and media change throughout the lessons to sustain engagement. 7. E. Rate how well the materials include organized activities that are logical extensions of content, goals, and objectives. O VERY GOOD ALIGNMENT OF SAIR ALIGNMENT OPOOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: 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: Media and activities are similar to successful classroom 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: Media and activities are similar to successful classroom 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 The activities and material are aligned with the expected outcome of the learner. 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 The activities and material are aligned with the expected outcome of the learner. Universal Design for Learning12. This submission incorporates strategies, materials, activities, etc., that consider the needs of all students. VERY GOOD ALIGNMENT OGOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT

10	matucation in materials	
	Justification:	
	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:	
	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 OF GOOD ALIGNMENT FAIR ALIGNMENT OF POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Activities and material in the lessons are designed for the end result of the units, and the expected learning outcome.	
s	tandards	
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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.6.N.1.1:** Define a problem from the sixth grade curriculum, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.

Remarks/Example	25
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Florida Standards Connections: LAFS.68.RST.1.3. Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.

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

The curriculum has multiple activities that use a multiple process to complete the activity

2. SC.6.N.1.2: Explain why scientific investigations should be replicable.

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

The replication of science is described and evaluated.

3. **SC.6.N.1.3:** Explain the difference between an experiment and other types of scientific investigation, and explain the relative benefits and limitations of each.

Remarks/Examples:

Explain that an investigation is observing or studying the natural world, without interference or manipulation, and an experiment is an

investigation that involves variables (independent/manipulated and dependent/ outcome) and establishes cause-and-effect relationships (Schwartz, 2007).
● VERY GOOD ALIGNMENT
Experiments, observations, and inferences are explained, defined, and practiced. 4. SC.6.N.1.4: Discuss, compare, and negotiate methods used, results obtained, and explanations among groups of students conducting the same investigation.
VERY GOOD ALIGNMENT OF AIR ALIGNMENT OF AIR ALIGNMENT OF ALIGNMENT OF ALIGNMENT OVERY POOR/NO ALIGNMENT Justification: Results of activities and experiments are shared with other members of the class to check understanding, and compare results.
5. SC.6.N.1.5 : Recognize that science involves creativity, not just in designing experiments, but also in creating explanations that fit evidence.
Remarks/Examples: Florida Standards Connections: LAFS.68.RST.3.7 LAFS.68.WHST.1.2 and, LAFS.68.WHST.3.9.
VERY GOOD ALIGNMENT OF AIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: There is a portion of the lesson describing the creativity behind science, and its different facets.
6. SC.6.N.2.1: Distinguish science from other activities involving thought.
Remarks/Examples: Thought refers to any mental or intellectual activity involving an individual's subjective consciousness. Science is a systematic process that pursues, builds and organizes knowledge in the form of testable explanations and predictions about the natural world.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: The lessons describe, and compare and contrast the difference between science, pseudo science, and other areas of intellectual activity.
7. SC.6.N.2.2: Explain that scientific knowledge is durable because it is open to change as new evidence or interpretations are encountered.
■ VERY GOOD ALIGNMENT ■ GOOD ALIGNMENT ■ FAIR ALIGNMENT ■ POOR ALIGNMENT ■ VERY POOR/NO ALIGNMENT Justification: Science is presented as an evolving processes that changes with new evidence over time.
8. SC.6.N.2.3: Recognize that scientists who make contributions to scientific knowledge come from all kinds of backgrounds and possess varied talents, interests, and goals.
● VERY GOOD ALIGNMENT
9. SC.6.N.3.1: Recognize and explain that a scientific theory is a well-supported and widely accepted explanation of nature and is not simply a claim posed by an individual. Thus, the use of the term theory in science is very different than how it is used in everyday life.
● VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification:
The lessons show that science must be based in fact and observation, and is not opinion, or assumptions posed by people.
10. SC.6.N.3.2: Recognize and explain that a scientific law is a description of a specific relationship under given conditions in the natural world. Thus, scientific laws are different from societal laws.
● VERY GOOD ALIGNMENT → GOOD ALIGNMENT → FAIR ALIGNMENT → POOR ALIGNMENT → VERY POOR/NO ALIGNMENT Justification: Scientific laws are explained and shown how they govern the natural world, and not the social or political world.
11. SC.6.N.3.3: Give several examples of scientific laws.
● VERY GOOD ALIGNMENT
12. SC.6.N.3.4: Identify the role of models in the context of the sixth grade science benchmarks.
Remarks/Examples: Florida Standards Connections: MAFS.K12.MP.4: Model with mathematics.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT

Justification: Mathematics is linked to many scientific standards and concepts throughout the curriculum. 13. SC.6.P.11.1: Explore the Law of Conservation of Energy by differentiating between potential and kinetic energy. Identify situations where kinetic energy is transformed into potential energy and vice versa. 🌑 VERY GOOD ALIGNMENT 🔍 GOOD ALIGNMENT 🔍 FAIR ALIGNMENT 🔍 POOR ALIGNMENT 🔍 VERY POOR/NO ALIGNMENT Potential and kinetic energy is presented in the form of different energy types, and conservation of energy is explained along with energy types showing the function of energy transfer. 14. SC.6.P.12.1: Measure and graph distance versus time for an object moving at a constant speed. Interpret this relationship. Remarks/Examples: Florida Standards Connections: MAFS.K12.MP.5: Use appropriate tools strategically and, MAFS.K12.MP.6: Attend to precision. 🍥 **VERY GOOD ALIGNMENT** 🔍 GOOD ALIGNMENT 🔍 FAIR ALIGNMENT 🔍 POOR ALIGNMENT 🔍 VERY POOR/NO ALIGNMENT Activities are available to practice measuring distance, and time and speed. 15. SC.6.P.13.1: Investigate and describe types of forces including contact forces and forces acting at a distance, such as electrical, magnetic, and gravitational. VERY GOOD ALIGNMENT
GOOD ALIGNMENT
FAIR ALIGNMENT
POOR ALIGNMENT
VERY POOR/NO ALIGNMENT Forces are defined and explained, and the different types of forces are presented, including contact, and at a distance forces. 16. SC.6.P.13.2: Explore the Law of Gravity by recognizing that every object exerts gravitational force on every other object and that the force depends on how much mass the objects have and how far apart they are. VERY GOOD ALIGNMENT . GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Gravity is explained, but not in detail about the law of gravity. 17. SC.6.P.13.3: Investigate and describe that an unbalanced force acting on an object changes its speed, or direction of motion, or both. 🌘 VERY GOOD ALIGNMENT 💚 GOOD ALIGNMENT 🤍 FAIR ALIGNMENT 🔍 POOR ALIGNMENT 🔍 VERY POOR/NO ALIGNMENT Balanced and unbalanced forces are explained, and practiced with activities. 18. SC.7.N.1.1: Define a problem from the seventh grade curriculum, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions. Remarks/Examples: Florida Standards Connections: LAFS.68.RST.1.3. Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks. 🍥 **VERY GOOD ALIGNMENT** 🔍 GOOD ALIGNMENT 🔍 FAIR ALIGNMENT 🔍 POOR ALIGNMENT 🔍 VERY POOR/NO ALIGNMENT The curriculum has multiple activities that use a multiple process to complete the activity 19. **SC.7.N.1.2**: Differentiate replication (by others) from repetition (multiple trials). VERY GOOD ALIGNMENT . GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Replication and repetition is defined, explained, and practiced. 20. SC.7.N.1.3: Distinguish between an experiment (which must involve the identification and control of variables) and other forms of scientific investigation and explain that not all scientific knowledge is derived from experimentation. VERY GOOD ALIGNMENT 🌑 GOOD ALIGNMENT 🔘 FAIR ALIGNMENT 🔍 POOR ALIGNMENT 🔍 VERY POOR/NO ALIGNMENT Justification: Experiments, observations, and inferences are explained, defined, and practiced. 21. SC.7.N.1.4: Identify test variables (independent variables) and outcome variables (dependent variables) in an experiment. VERY GOOD ALIGNMENT

GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Activities and are present in the curriculum that show students how independent and dependent variables are used in an experiment. 22. SC.7.N.1.5: Describe the methods used in the pursuit of a scientific explanation as seen in different fields of science such as biology, geology, and physics.

● VERY GOOD ALIGNMENT ■ GOOD ALIGNMENT ■ FAIR ALIGNMENT ■ POOR ALIGNMENT ■ VERY POOR/NO ALIGNMENT Justification:
23. SC.7.N.1.6: Explain that empirical evidence is the cumulative body of observations of a natural phenomenon on which scientific explanations are based.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Evidence is mentioned, but is not a main focus of a lesson or activity
24. SC.7.N.1.7: Explain that scientific knowledge is the result of a great deal of debate and confirmation within the science community.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: The history of science is reviewed, and it is shown how science changes due to new evidence, and new ways to think.
25. SC.7.N.2.1: Identify an instance from the history of science in which scientific knowledge has changed when new evidence or new interpretations are encountered.
● VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Examples are shown on how new evidence changes a scientific understanding, such as the atom, evolution, cell theory, and so on.
26. SC.7.N.3.1: Recognize and explain the difference between theories and laws and give several examples of scientific theories and the evidence that supports them.
● VERY GOOD ALIGNMENT
27. SC.7.N.3.2: Identify the benefits and limitations of the use of scientific models. Thus, the use of the term theory in science is very different than how it is used in everyday life.
Remarks/Examples: Florida Standards Connections: MAFS.K12.MP.4: Model with mathematics.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Models are used for explanations, but are not a direct focus of a lesson or unit.
28. SC.7.P.10.1: Illustrate that the sun's energy arrives as radiation with a wide range of wavelengths, including infrared, visible, and ultraviolet, and that white light is made up of a spectrum of many different colors.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: The electromagnetic spectrum is a key part of a unit, and the parts of light, and how light works is explained.
29. SC.7.P.10.2: Observe and explain that light can be reflected, refracted, and/or absorbed.
■ VERY GOOD ALIGNMENT ■ GOOD ALIGNMENT ■ FAIR ALIGNMENT ■ POOR ALIGNMENT ■ VERY POOR/NO ALIGNMENT
Justification: Reflection, refraction and absorption are all explained, and practiced in the unit dealing with light and waves.
30. SC.7.P.10.3: Recognize that light waves, sound waves, and other waves move at different speeds in different materials.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: It is explained that light travels through empty space at 300000000 m/s but it does not explain how fast light travels through different
densities. 31. SC.7.P.11.1: Recognize that adding heat to or removing heat from a system may result in a temperature change and possibly a change of state.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: the relationship between heat, temperature, and state of matter are all explained, with examples and practice.
32. SC.7.P.11.2: Investigate and describe the transformation of energy from one form to another.
■ VERY GOOD ALIGNMENT ■ GOOD ALIGNMENT □ FAIR ALIGNMENT □ POOR ALIGNMENT □ VERY POOR/NO ALIGNMENT Justification: Types of energy are explained, and the transformation of one type of energy to another is explained with examples, and practice.
33 SC 7 P.11 3: Cite evidence to explain that energy cannot be created nor destroyed, only changed from one form to another

VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: The law of conservation of energy is explained with energy transformations and transfers.
34. SC.7.P.11.4: Observe and describe that heat flows in predictable ways, moving from warmer objects to cooler ones until they reach the
same temperature.
■ VERY GOOD ALIGNMENT ■ GOOD ALIGNMENT ■ FAIR ALIGNMENT ■ POOR ALIGNMENT ■ VERY POOR/NO ALIGNMENT Justification:
Heat is described to flow in the direction of hot to cold, and through conduction, convection and radiation.
35. SC.8.N.1.1: Define a problem from the eighth grade curriculum using appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.
VERY GOOD ALIGNMENT ● GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Activities and assignments use the scientific method and critical thinking to analyze information to discover information.
36. SC.8.N.1.2: Design and conduct a study using repeated trials and replication.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT
Justification: Experiments and activities in the lesson use repetition to check for accuracy, and students are instructed to observe others data for accuracy.
37. SC.8.N.1.3: Use phrases such as "results support" or "fail to support" in science, understanding that science does not offer conclusive 'proof' of a knowledge claim.
VERY GOOD ALIGNMENT OF AIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Support through evidence is explained. Science is described as a subject of evidence that changes when new evidence is found, so science cannot be proven, but only supported through evidence.
38. SC.8.N.1.4: Explain how hypotheses are valuable if they lead to further investigations, even if they turn out not to be supported by the data.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Hypothesis are described and taught to be questions that can be answered through supporting, or denying evidence, the process of science continues when a hypothesis is denied.
39. SC.8.N.1.5: Analyze the methods used to develop a scientific explanation as seen in different fields of science.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Examples of how science effects other fields are shown and described.
40. SC.8.N.1.6: Understand that scientific investigations involve the collection of relevant empirical evidence, the use of logical reasoning,
and the application of imagination in devising hypotheses, predictions, explanations and models to make sense of the collected evidence.
Remarks/Examples:
Florida Standards Connections: MAFS.K12.MP.4: Model with mathematics.
● VERY GOOD ALIGNMENT
Science is shown to be a process of the reasoning of observation, critical thinking, and explanations. 41. SC.8.N.2.1: Distinguish between scientific and pseudoscientific ideas.
Remarks/Examples:
Science is testable, pseudo-science is not science seeks falsifications, pseudo-science seeks confirmations (e.g. astrology is pseudoscience).
● VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ● FAIR ALIGNMENT ● POOR ALIGNMENT ● VERY POOR/NO ALIGNMENT Justification: Pseudo-science is compared and contrasted with science, showing how science is based in observations, and pseudo-science is based in inference and speculation.
42. SC.8.N.2.2 : Discuss what characterizes science and its methods.
Remarks/Examples:

explain natural phenomena.	testing to
● VERY GOOD ALIGNMENT	
The scientific method is explained as a process where observations are reasoned with, tested, and explanations are derived produced.	d from the data
43. SC.8.N.3.1: Select models useful in relating the results of their own investigations.	
Remarks/Examples: Florida Standards Connections: MAFS.K12.MP.4: Model with mathematics.	
VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ● FAIR ALIGNMENT ● POOR ALIGNMENT ● VERY POOR/NO ALIGNMENT ■ VERY POOR/NO ALIGNM	SNMENT
44. SC.8.N.3.2: Explain why theories may be modified but are rarely discarded.	
■ VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Theories are explained as based in evidence, and as new evidence is found, the theory is adjusted to support the new evidence original hypothesis is still there, being developed.	
45. SC.8.N.4.1: Explain that science is one of the processes that can be used to inform decision making at the community, state and international levels.	e, national,
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT ○ VERY POOR/NO ALIGNMENT	SNMENT
Science is shown to influence decisions, but is not a test of moral, political, or religious concepts.	
46. SC.8.N.4.2: Explain how political, social, and economic concerns can affect science, and vice versa.	
VERY GOOD ALIGNMENT ☐ GOOD ALIGNMENT ☐ FAIR ALIGNMENT ⑥ POOR ALIGNMENT ☐ VERY POOR/NO ALIGNMENT ☐ VERY POOR/NO ALIGNMENT ☐ VERY POOR/NO ALIGNMENT ⑥ POOR ALIGNMENT ☐ VERY POOR/NO ALIGNMENT ☐ VERY POOR/NO ALIGNMENT ⑥ POOR ALIGNMENT ☐ VERY POOR/NO ALIGNMENT ☐ VERY POOR/NO ALIGNMENT ☐ VERY POOR POOR POOR POOR POOR POOR POOR PO	
47. SC.8.P.8.1: Explore the scientific theory of atoms (also known as atomic theory) by using models to explain the motion of pasolids, liquids, and gases.	articles in
Remarks/Examples: Recognize that matter is composed of discrete units called atoms and atoms are composed of sub-atomic particles called proto and electrons. Solid is the state in which intermolecular attractions keep the molecules in fixed spatial relationships. Liquid is the which intermolecular attractions keep molecules in proximity, but not in fixed relationships. Gas is the state in which molecules comparatively separated and intermolecular attractions have relatively little effect on their respective motions.	e state in
Florida Standards Connections: MAFS.K12.MP.4: Model with mathematics.	
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT USER'S POOR ALIGNMENT VERY POOR/NO ALIGNMENT Models are used to describe the particles in matter at different states of energy.	SNMENT
48. SC.8.P.8.2: Differentiate between weight and mass recognizing that weight is the amount of gravitational pull on an object a from, though proportional to, mass.	and is distinct
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: The relationship between weight and gravity, and matter and mass are given, but not in great detail.	SNMENT
49. SC.8.P.8.3: Explore and describe the densities of various materials through measurement of their masses and volumes.	
Remarks/Examples:	
Florida Standards Connections: MAFS.K12.MP.5: Use appropriate tools strategically and, MAFS.K12.MP.6: Attend to precision	
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT USERY POOR ALIGNMENT ○ VERY POOR	SNMENT
50. SC.8.P.8.4 : Classify and compare substances on the basis of characteristic physical properties that can be demonstrated o for example, density, thermal or electrical conductivity, solubility, magnetic properties, melting and boiling points, and know that properties are independent of the amount of the sample.	

Remarks/Examples:
Florida Standards Connections: MAFS.K12.MP.5: Use appropriate tools strategically and, MAFS.K12.MP.6: Attend to precision.
● VERY GOOD ALIGNMENT → GOOD ALIGNMENT → FAIR ALIGNMENT → POOR ALIGNMENT → VERY POOR/NO ALIGNMENT Justification:
Lesson activities require measurements that need precision using the correct tools to assure the correct data is recorded.
51. SC.8.P.8.5: Recognize that there are a finite number of elements and that their atoms combine in a multitude of ways to produce compounds that make up all of the living and nonliving things that we encounter.
Remarks/Examples:
Demonstrate with atomic models how atoms can combine in many ways. Explain why there are many, but limited, combinations. Use models to demonstrate the conservation of mass in modeled chemical reactions.
● VERY GOOD ALIGNMENT
Justification: Elements are described as the fundamental building blocks of matter, and the periodic table is used to show the number of elements that exist in the universe, and how they combine in many more ways to produce compounds. Conservation of mass is referenced to explain how chemical reactions produced products.
52. SC.8.P.8.6: Recognize that elements are grouped in the periodic table according to similarities of their properties.
■ VERY GOOD ALIGNMENT ■ GOOD ALIGNMENT ■ FAIR ALIGNMENT ■ POOR ALIGNMENT ■ VERY POOR/NO ALIGNMENT Justification:
The production of the periodic table is described as arrangement based on similar properties due to valence electrons.
53. SC.8.P.8.7: Explore the scientific theory of atoms (also known as atomic theory) by recognizing that atoms are the smallest unit of an element and are composed of sub-atomic particles (electrons surrounding a nucleus containing protons and neutrons).
Remarks/Examples: Florida Standards Connections: MAFS.K12.MP.4: Model with mathematics.
● VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ● FAIR ALIGNMENT ● POOR ALIGNMENT ● VERY POOR/NO ALIGNMENT Justification: The model of the steep is described with how if her charged even time due to new suidence and information
The model of the atom is described with how it has changed over time due to new evidence and information.
54. SC.8.P.8.8: Identify basic examples of and compare and classify the properties of compounds, including acids, bases, and salts.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
The classification of matter is shown as pure substances, mixtures, acids, bases, neutral, homogeneous and heterogeneous.
55. SC.8.P.8.9: Distinguish among mixtures (including solutions) and pure substances.
Remarks/Examples:
Pure substances include elements and compounds. Mixtures are classified as heterogeneous (mixtures) or homogeneous (solutions). Methods for separating mixtures include: distillation, chromatography, reverse osmosis, diffusion through semi-permeable membranes.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT
Justification: The classification of matter is shown as pure substances, mixtures, acids, bases, neutral, homogeneous and heterogeneous.
56. SC.8.P.9.1: Explore the Law of Conservation of Mass by demonstrating and concluding that mass is conserved when substances
undergo physical and chemical changes.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
Mass is described as a constant amount, that stays constant through any type of change, physical or chemical.
57. SC.8.P.9.2: Differentiate between physical changes and chemical changes.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT
Justification: Changes of matter are described and explained, both through physical means, and chemical means, and both are compared and contrasted.
58. SC.8.P.9.3: Investigate and describe how temperature influences chemical changes.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT
Justification: Chemical changes are discussed, but the rate of chemical reactions is not discussed in great detail.

59. LAFS.68.RST.1.1: Cite specific textual evidence to support analysis of science and technical texts.	
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Lesson activities require measurements that need precision using the correct tools to assure the correct data is recorded.	
60. LAFS.68.RST.1.2: Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.	
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Conclusions are given at the end of each unit to summarize the unit and review main concepts.	
61. LAFS.68.RST.1.3: Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technic tasks.	cal
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification:	
62. LAFS.68.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 6–8 texts and topics.	
● VERY GOOD ALIGNMENT	
63. LAFS.68.RST.2.5: Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole ar to an understanding of the topic.	ıd
VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ● FAIR ALIGNMENT ● POOR ALIGNMENT ● VERY POOR/NO ALIGNMENT Justification: The portions of each unit are well constructed for the learning of the user.	
64. LAFS.68.RST.2.6 : Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.	
VERY GOOD ALIGNMENT OF SAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification:	
65. LAFS.68.RST.3.7: Integrate quantitative or technical information expressed in words in a text with a version of that information express visually (e.g., in a flowchart, diagram, model, graph, or table).	sed
● VERY GOOD ALIGNMENT	
66. LAFS.68.RST.3.8: Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.	
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Facts are supported by evidence in the text, and examples.	
67. LAFS.68.RST.3.9: Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.	t
● VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: videos and images are used to reinforce information from the text.	
68. LAFS.68.RST.4.10: By the end of grade 8, read and comprehend science/technical texts in the grades 6–8 text complexity band independently and proficiently.	
● VERY GOOD ALIGNMENT	
69. LAFS.68.WHST.1.1: Write arguments focused on discipline-specific content.	
 a. Introduce claim(s) about a topic or issue, acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically. b. Support claim(s) with logical reasoning and relevant, accurate data and evidence that demonstrate an understanding of the topic or text 	
using credible sources.	,
c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence	€.

d. Establish and maintain a formal style.	
e. Provide a concluding statement or section that follows from and supports the argument presented.	
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POUR SUBJECT OF THE POUR	
There are a few activities where students are expected to write arguments and support their arguments with ev	
70. LAFS.68.WHST.1.2: Write informative/explanatory texts, including the narration of historical events, scientific p technical processes.	procedures/ experiments, or
 a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader cat achieving purpose; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful b. Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information ac. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concept d. Use precise language and domain-specific vocabulary to inform about or explain the topic. e. Establish and maintain a formal style and objective tone. f. Provide a concluding statement or section that follows from and supports the information or explanation presented. 	to aiding comprehension. and examples. ts.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR JUSTIFICATION:	OOR/NO ALIGNMENT
There are a few activities where students are expected to write and support their arguments with evidence.	
71. LAFS.68.WHST.2.4: Produce clear and coherent writing in which the development, organization, and style are purpose, and audience.	appropriate to task,
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POUR Justification:	OOR/NO ALIGNMENT
There are a few activities where students are expected to write and support their arguments with evidence.	
72. LAFS.68.WHST.2.5: With some guidance and support from peers and adults, develop and strengthen writing a revising, editing, rewriting, or trying a new approach, focusing on how well purpose and audience have been addressed and audience have been addressed.	
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY P Justification: Through the use of experiments and other activities students are expected to write what they have learned, using the investigation.	
process in their writing. 73. LAFS.68.WHST.2.6: Use technology, including the Internet, to produce and publish writing and present the relainformation and ideas clearly and efficiently.	ationships between
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY P Justification:	
There are some opportunities for students to research and write what they have learned from the units in the cu	
74. LAFS.68.WHST.3.7: Conduct short research projects to answer a question (including a self-generated question sources and generating additional related, focused questions that allow for multiple avenues of exploration.	n), drawing on several
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POUR SUBJECT OF THE POUR	
There are some opportunities for students to research and write what they have learned from the units in the cu	
75. LAFS.68.WHST.3.8: Gather relevant information from multiple print and digital sources, using search terms eff credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding a standard format for citation.	•
$^{\circ}$ very good alignment $^{\circ}$ good alignment $^{\circ}$ fair alignment $^{\circ}$ poor alignment $^{\circ}$ very p Justification:	OOD/NO ALICAMENT
There are some opportunities for students to research and write what they have learned from the units in the cu	
There are some opportunities for students to research and write what they have learned from the units in the current formational texts to support analysis reflection, and research.	
76. LAFS.68.WHST.3.9: Draw evidence from informational texts to support analysis reflection, and research. VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY P Justification:	urriculum. OOR/NO ALIGNMENT
76. LAFS.68.WHST.3.9: Draw evidence from informational texts to support analysis reflection, and research. VERY GOOD ALIGNMENT OF FAIR ALIGNMENT POOR ALIGNMENT VERY PUblication: Students are expected to use what they have learned from the text and apply it to support research that they contains the support research that they cannot be supported to the support research that they cannot be supported to the support research that they cannot be supported to the support research that the support resea	urriculum. OOR/NO ALIGNMENT onduct.
76. LAFS.68.WHST.3.9: Draw evidence from informational texts to support analysis reflection, and research. VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY P Justification:	urriculum. OOR/NO ALIGNMENT onduct.
76. LAFS.68.WHST.3.9: Draw evidence from informational texts to support analysis reflection, and research. VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY PUblication: Students are expected to use what they have learned from the text and apply it to support research that they could be reflected to use what they have learned from the text and apply it to support research that they could be reflected and revision and revision and shorter to reflection and revision and shorter to reflection and revision and shorter to reflect to reflect to a range of discipline-specific tasks, purposes, and audiences. VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY PUblication:	urriculum. OOR/NO ALIGNMENT onduct. ime frames (a single sitting
76. LAFS.68.WHST.3.9: Draw evidence from informational texts to support analysis reflection, and research. VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POUR ALIGNMENT VERY POOR ALIGNMENT OF ALIGNMENT	OOR/NO ALIGNMENT onduct. ime frames (a single sitting

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on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly.

on the topic, text, or issue to probe and reflect on ideas under discussion. b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual role as needed. c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas.	es
as needed. c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas.	3 5
c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas.	
·	
d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence	
presented.	
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: lab activities require the use of groups and one on one participation.	
79. LAFS.8.SL.1.2 : Analyze the purpose of information presented in diverse media and formats (e.g., visually, quantitatively, orally) and evaluate the motives (e.g., social, commercial, political) behind its presentation.	
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Analysis of the media is not a focus of any unit.	
80. LAFS.8.SL.1.3: Delineate a speaker's argument and specific claims, evaluating the soundness of the reasoning and relevance and	
sufficiency of the evidence and identifying when irrelevant evidence is introduced.	
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification:	
Information in science is compared and contrasted with not evidence based information, but it is not the main point of any activity.	
81. LAFS.8.SL.2.4: Present claims and findings, emphasizing salient points in a focused, coherent manner with relevant evidence, sound valid reasoning, and well-chosen details; use appropriate eye contact, adequate volume, and clear pronunciation.	
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:	
Presentations are not an activity type observed.	
82. LAFS.8.SL.2.5 : Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest.	
VERY GOOD ALIGNMENT ☐ GOOD ALIGNMENT ☐ FAIR ALIGNMENT ☐ POOR ALIGNMENT ☐ VERY POOR/NO ALIGNMENT Justification: Presentations are not an activity type observed.	
83. MAFS.6.SP.2.5: Summarize numerical data sets in relation to their context, such as by:	
a. Reporting the number of observations.	
 b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement. c. Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as we as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered. 	ell
d. Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.	
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: data sets are studied for information to apply to an activity.	
84. MAFS.7.SP.2.4: Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations. For example, decide whether the words in a chapter of a seventh-grade science book are generally longer than the words in a chapter of a fourth-grade science book.	
VERY GOOD ALIGNMENT □ GOOD ALIGNMENT □ FAIR ALIGNMENT □ POOR ALIGNMENT □ VERY POOR/NO ALIGNMENT Justification: Not observed.	
85. MAFS.7.SP.3.5: Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the exoccurring. Larger numbers indicate greater likelihood. A probability near 0 indicates an unlikely event, a probability around 1/2 indicates are event that is neither unlikely nor likely, and a probability near 1 indicates a likely event.	
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Not observed.	

86. MAFS.8.F.2.5 : Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Students are required to create graphs and tables based off of data sets produced, or give.
87. MAFS.8.G.3.9: Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.
Remarks/Examples:
Fluency Expectations or Examples of Culminating Standards
When students learn to solve problems involving volumes of cones, cylinders, and spheres — together with their previous grade 7 work in angle measure, area, surface area and volume (7.G.2.4–2.6) — they will have acquired a well-developed set of geometric measurement skills. These skills, along with proportional reasoning (7.RP) and multistep numerical problem solving (7.EE.2.3), can be combined and used in flexible ways as part of modeling during high school — not to mention after high school for college and careers. VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT
Justification: Not observed.
88. 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 ⑤ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
89. 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 observed.