Bid 3366

INSTRUCTIONAL	MATERIALS	ADMINISTRAT	OR
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Recommendation

Yes

Comments: Overall, I think that this material covers many of the state standards for Comprehensive Science 2, although it does not cover all of them. I think the way the material is presented makes it meaningful to all students. I do think that there needs to be more inquiry if it is to be applied to the higher-level students. The assignments for scientific explanation are extremely repetitive, even as so having the same video attached no matter what the unit. I do not think that everything is contained with this material. I think the teacher would still need to find some of their own material in order to fully cover all the standards within a school year. The videos are informative, although some of them may appear dated especially to a younger generation. I do think this material could use a nature of science section where they go more into variables and the difference between theories and laws.

I think they did a fine job of covering the scientific content of the course. There needs to be more coverage of the process of science for students to fully grasp it. I think this material may be a great addition to Florida Virtual School students. It may need some extra information and material to be used for classroom purposes.

Material for Review

Course: M/J Comprehensive Science 2 (2002070) Title: Discovery Education Science Techbook (Florida) - M/J Comprehensive Science 2 , Edition: 1 Copyright: 2017 Author: Amy Gensemer, David Marsland, Nikki Snyder Grade Level: 6 - 8

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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- · 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

	Justification: The content aligns with some standards but not all. I have gone into detail about this in the standards section.
2	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:
	In general, the content is aligned with the skill level.
3	3. A. The materials are adaptable and useful for classroom instruction.
	○ VERY GOOD ALIGNMENT
	Justification: I believe that a lot of the content can be useful in classroom instruction. I think that some of the material is a bit repetitive and may need be adapted by the teacher.
E	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: I believe the details are sufficient for this grade level.
Ę	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: The difficulty is aligned well.
6	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 complexity is well aligned for the 7th grade level.
7	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: This can work well with the time period.
	C. Expertise for Content Development8. C. The primary and secondary sources cited in the materials reflect expert information for the subject.
	● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: The sources reflect expert information.
ç	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: The visuals, reading passages, and videos help contribute to the quality of the content. They can help various learners.
1	D. Accuracy of Content10. D. The content is presented accurately. (Material should be devoid of typographical or visual errors).
	● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
	The content appears to be free of errors. If there are some, they are not glaring.
	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: The content is unbiased and is noninflammatory
	12. D. The content of the material is representative of the discipline? (Material should include prevailing theories, concepts, standards, and models used with the subject area).
	● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Yes the content is representative of the sciences of which it discusses.

Justification:

The material is factually accurate.

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:

While some of the videos appear dated, the information contained is up-to-date.

15. E. The content is presented to the curriculum, standards, and benchmarks in an appropriate and relevant context.

Some of the standards are strongly represented but not all. The content presented is in line with the standards of some of the curriculum.

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 content is appropriate for the age.

F. Authenticity of Content17. F. The content includes connections to life in a context that is meaningful to students.

18. F. The material includes interdisciplinary connections which are intended to make the content meaningful to students.

VERY GOOD ALIGNMENT
 GOOD ALIGNMENT
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The material is a nice blend of science, reading, and math. A little bit of history.

G. Multicultural Representation19. 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:

I think the groups are portrayed 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:

The content shows living things in a good light without inappropriate material.

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:

As I said in the standards section, I believe some have been covered in depth with some missing.

Presentation -

Justification:

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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.

I think that the materials provided can be good but that a teacher may need to bring in some additional materials.

B. Alignment of Instructional Components2. 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:

I believe that these align with each other.

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:

The materials are consistent. Some seem too consistent as they seem to be repetitive. The organization is logical.

D. Readability of Instructional Materials4. 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:

I believe this aligns well.

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:

Because this is an online program, the pace can be decided by the student and can fit with their abilities.

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:

This is fine for the accessibility.

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:

In general, it is more in very good alignment than the good alignment.

Learning

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A. Motivational Strategies1. A. Instructional materials include features to maintain learner motivation.	
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:	hor
I think the students who are motivated will find the setup of the lessons and the easy way to flow through something that can motivate th I do have concerns with other types of learners.	len
B. Teaching a Few "Big Ideas"2. B. Instructional materials thoroughly teach a few important ideas, concepts, or themes.	
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: The ideas that are presented are thoroughly explored.	
C. Explicit Instruction3. C. The materials contain clear statements of information and outcomes.	
• • VERY GOOD ALIGNMENT	
Justification: The materials are very concise and clear when referring to the desired outcomes.	
D. Guidance and Support 4. D. The materials provide guidance and support to help students safely and successfully become more independent learners and thinkers.	
○ VERY GOOD ALIGNMENT ● GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:	
Those students who are naturally more independent will use this program and flourish. Those that may need more help with guidance n not find this program as valuable as others.	nay
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: The product has opportunities for ESOL learning as well as a bit of differentiation but the explanation assignments were very similar. Th had alternative opportunities but seemed very repetitive.	ey
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: It seemed more emphasis was on the mental activity. There are a few hands-on labs but most of the material is either written or visual (videos).	
7. E. Rate how well the materials include organized activities that are logical extensions of content, goals, and objectives.	
● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT	
Justification: Based on the standards that the materials were associated with, I felt they were logical extensions of the objectives.	
F. Targeted Instructional Strategies8. F. Instructional materials include the strategies known to be successful for teaching the learning outcomes targeted in the curriculum requirements.	
○ VERY GOOD ALIGNMENT	
The strategies are good, but the emphasis on videos and reading may not reach every student.	
9. F. The instructional strategies incorporated in the materials are effective in teaching the targeted outcomes.	
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: The strategies presented are very targeted to the outcomes	
The strategies presented are very targeted to the outcomes. 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:

The assessment strategies were closely related to the desired 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:

I feel as though there needed to be more diversity in the assignments. The assignments are heavy on reading, writing, and watching, which works well for a person like me, but not for all students.

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:

I feel as though there needs to be more opportunity for hands on, inquiry, or exploration. What is aligned is good.

Mathematical Practice13. Do you observe the appropriate application of Mathematical Practices (MP) as applicable?

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

There use of science to align with math is appropriate.

14. In general, does the submission satisfy LEARNING requirements? (The comments should support your responses to the questions in the Learning section.)

I feel as though the submission will work fantastically for certain types of learners but perhaps not all. The self-motivated learner will do a great job with this program. Those that are not as intrinsically-motivated may not find this engaging.

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 ccdefinitions 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.7.E.6.1: Describe the layers of the solid Earth, including the lithosphere, the hot convecting mantle, and the dense metallic liquid and solid cores.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

The information presented is in alignment with the standard. The detail it goes into is sufficient.

2. SC.7.E.6.2: Identify the patterns within the rock cycle and relate them to surface events (weathering and erosion) and sub-surface events (plate tectonics and mountain building).

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:

Their detail as to the steps of the rock cycle and how rocks can change on Earth is in line with the standard. They are able to aptly explain the different steps and why not all rocks have the same age.

3. SC.7.E.6.3: Identify current methods for measuring the age of Earth and its parts, including the law of superposition and radioactive dating.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

The material talks both about the law of superposition and radioactive dating and how they apply when finding the age of the Earth.

4. SC.7.E.6.4: Explain and give examples of how physical evidence supports scientific theories that Earth has evolved over geologic time due to natural processes.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

The material uses examples such as the rock cycle, plate tectonics, and the Grand Canyon to show that Earth has changed over time due to natural methods. It also talks about why we find fossils of tropical plants in places that are the opposite of tropical today.

5. SC.7.E.6.5: Explore the scientific theory of plate tectonics by describing how the movement of Earth's crustal plates causes both slow and rapid changes in Earth's surface, including volcanic eruptions, earthquakes, and mountain building.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

The techbook goes into detail about how plate tectonics affects changes in Earth both quickly and slowly. It has readings and videos about earthquakes and volcanoes to support the evidence we have had for plate tectonics. It introduces plate tectonics prior to continental drift, which is a bit backwards chronologically but may not affect absorption.

6. SC.7.E.6.6: Identify the impact that humans have had on Earth, such as deforestation, urbanization, desertification, erosion, air and water quality, changing the flow of water.

○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

The material goes into detail on deforestation, habitat destruction, air and water quality, but does not mention urbanization, desertification.

7. SC.7.E.6.7: Recognize that heat flow and movement of material within Earth causes earthquakes and volcanic eruptions, and creates mountains and ocean basins.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

Discusses in detail about the convection currents in the mantle and how they control plate tectonics.

8. SC.7.L.15.1: Recognize that fossil evidence is consistent with the scientific theory of evolution that living things evolved from earlier species.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

Uses fossil evidence and videos to show how fossils are some of our strongest pieces of evidence for the theory of evolution.

9. SC.7.L.15.2: Explore the scientific theory of evolution by recognizing and explaining ways in which genetic variation and environmental factors contribute to evolution by natural selection and diversity of organisms.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

It discusses both genetic and environmental factors and how they affect biodiversity.

10. SC.7.L.15.3: Explore the scientific theory of evolution by relating how the inability of a species to adapt within a changing environment may contribute to the extinction of that species.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

The material covers this standard.

11. SC.7.L.16.1: Understand and explain that every organism requires a set of instructions that specifies its traits, that this hereditary information (DNA) contains genes located in the chromosomes of each cell, and that heredity is the passage of these instructions from one generation to another.

Remarks/Examples:

Integrate HE.7.C.1.4. Describe how heredity can affect personal health.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

The material covers this standard including the integration of affect on health.

12. SC.7.L.16.2: Determine the probabilities for genotype and phenotype combinations using Punnett Squares and pedigrees.

○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

This goes into good detail about genotypes, phenotypes, and Punnett Squares. I didn't see anything about pedigrees.

13. SC.7.L.16.3: Compare and contrast the general processes of sexual reproduction requiring meiosis and asexual reproduction requiring mitosis.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

It goes into detail about meiosis, mitosis, and the kind of reproduction they apply to.

14. SC.7.L.16.4: Recognize and explore the impact of biotechnology (cloning, genetic engineering, artificial selection) on the individual, society and the environment.

Remarks/Examples:

Integrate HE.7.C.1.4. Describe how heredity can affect personal health.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

It goes into detail on biotechnology. The health aspect is in a different topic.

15. SC.7.L.17.1: Explain and illustrate the roles of and relationships among producers, consumers, and decomposers in the process of energy transfer in a food web.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

The material goes into this standard.

16. SC.7.L.17.2: Compare and contrast the relationships among organisms such as mutualism, predation, parasitism, competition, and commensalism.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

The material covers these topics and details them.

17. SC.7.L.17.3: Describe and investigate various limiting factors in the local ecosystem and their impact on native populations, including food, shelter, water, space, disease, parasitism, predation, and nesting sites.

○ VERY GOOD ALIGNMENT ● **GOOD ALIGNMENT** ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

It discusses limiting factors and how they can lead to extinction but does not go into detail on all the different factors.

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 Justification:

This standard is interspersed throughout the other topics.

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:

The material has it listed for some of the topics, but does not necessarily point out which one is which. In my experience, students need to be told the difference in plain language.

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.

It does touch upon how not everything was an experiment (ex: Darwin's observations led to the theory of evolution). Students may be confused as to when to use each.

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 Justification: Because this does not have the nature of science in its own section, this is touched upon in other tonics but not explained. This is so

Because this does not have the nature of science in its own section, this is touched upon in other topics but not explained. This is something many students struggle with.

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:

It details a scientific explanation and it explores all those topics.

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:

The material describes how science has grown over time.

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:

It brings up the debate factor especially when things were not accepted right away like with Alfred Wegener.

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

It gives examples of how science has changed with new information.

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 ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ● **POOR ALIGNMENT** ○ VERY POOR/NO ALIGNMENT Justification:

The material gives examples of both theories and laws along with evidence, but it doesn't point out the difference between the two. There are many misconceptions with these two terms.

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.

The material points out how sometimes models can be better than experiments depending on the topic.

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 material talks about the different wavelengths and how white light is made up of the spectrum. It does not mention how the sun can make all wavelengths (including the dangerous ones)

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:

It goes into this in detail.

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 discusses how light will change speeds in different mediums but not sound or other waves.

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 material covers this standard.

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:

The material covers this standard.

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 material talks about the law of conservation of energy.

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:

The material covers this though may not point it out.

35. 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:

This material is very heavy on the reading and visual aids in order to aid in student learning. The activities also require the students to be able to pull information from the texts in order to formulate an explanation. There does not seem to be a precedence to require citation, however, like in a research paper.

36. 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:

The material covers this standard.

37. 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 Justification:

The material covers this standard.

38. 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 ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

The material covers this standard.

39. LAFS.68.RST.2.5: Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic.

○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

This standard is more attuned to fictional and argumentative writings. Most of this material is strictly informational.

40. 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 ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

The material covers this standard.

41. LAFS.68.RST.3.7: Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT

Justification:

The material covers this standard.

42. 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:

The material covers this standard.

43. 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.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

This can be done with this material if used.

44. 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 POOR/NO ALIGNMENT Justification:

This material allows for an activity like this.

45. LAFS.68.WHST.1.2: Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.

a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories as appropriate to achieving purpose; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.

b. Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.

c. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts.

- 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.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

The material covers this standard.

46. LAFS.68.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:

An assignment that fits this standard can be done with this material.

47. LAFS.68.WHST.2.5: With some guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on how well purpose and audience have been addressed.

The scientific explanations fit into this standard.

48. LAFS.68.WHST.2.6: Use technology, including the Internet, to produce and publish writing and present the relationships between information and ideas clearly and efficiently.

Gives opportunities to publish online and present ideas.

49. LAFS.68.WHST.3.7: Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

Allows for scientific research projects.

50. LAFS.68.WHST.3.8: Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation. \bigcirc very good alignment \circledast good alignment \bigcirc fair alignment \bigcirc poor alignment \bigcirc very poor/no alignment Justification: Good opportunities to use sources. There is not much opportunity to assess the examples. 51. 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 POOR/NO ALIGNMENT Justification: The material covers this standard. 52. LAFS.68.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. Justification. It has good opportunities for this if the teacher decides to use it. 53. LAFS.7.SL.1.1: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 7 topics, texts, and issues, building on others' ideas and expressing their own clearly. a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion. b. Follow rules for collegial discussions, track progress toward specific goals and deadlines, and define individual roles as needed. c. Pose questions that elicit elaboration and respond to others' questions and comments with relevant observations and ideas that bring the discussion back on topic as needed. d. Acknowledge new information expressed by others and, when warranted, modify their own views. ● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification. This material allows for this if the teacher decides to use it. 54. LAFS.7.SL.1.2: Analyze the main ideas and supporting details presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how the ideas clarify a topic, text, or issue under study. ● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: The material covers this standard. 55. LAFS.7.SL.1.3: Delineate a speaker's argument and specific claims, evaluating the soundness of the reasoning and the relevance and sufficiency of the evidence. ○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification. While it has many examples of evidence, it does not always have a delineation. 56. LAFS.7.SL.2.4: Present claims and findings, emphasizing salient points in a focused, coherent manner with pertinent descriptions, facts, details, and examples; use appropriate eye contact, adequate volume, and clear pronunciation. ● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Good movies and presentations. 57. LAFS.7.SL.2.5: Include multimedia components and visual displays in presentations to clarify claims and findings and emphasize salient points. ● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: Many multimedia examples. 58. HE.7.C.1.3: Analyze how environmental factors affect personal health. Remarks/Examples: Food refrigeration, appropriate home heating and cooling, air/water quality, and garbage/trash collection. ○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ● FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: It talks about environmental factors on health but more focused on smoking, lifestyle choices. 59. HE.7.C.1.8: Explain the likelihood of injury or illness if engaging in unhealthy/risky behaviors.

Remarks/Examples:

Abuse of over-the-counter medications, sexually transmitted diseases and sexually transmitted infections from sexual relationships, injury, or death from unsupervised handling of firearms, and physical/emotional injury, or impact from abusive dating partner.

● VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:

It talks about the risks associated with lifestyle choices.

60. **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:

It does this but I don't know if it points them out.

61. **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 event occurring. Larger numbers indicate greater likelihood. A probability near 0 indicates an unlikely event, a probability around 1/2 indicates an 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:

Punnett Squares are fantastic examples of probability. They can show that 25% probability could still happen.

62. 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:

It gives many examples for the teacher to present to ELL students

63. 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: Good examples for ELL students