# INSTRUCTIONAL MATERIALS ADMINISTRATOR

BID 3325

#### Recommendation

Yes

Comments: This program covers the benchmarks, teachers will have to pull from external resources which most already do. The program doesn't give strategies to for vocabulary learning (no pre-fix/suffix support). Nor does it give ways to make your own tests/ assessments. I think that advanced students will become bored VERY quickly with this program. And ELL other than Spanish speaking students will not have support. I could not find any "read aloud" support with this program. There was no glossary.

#### Material for Review

Course: M/J Comprehensive Science 1 (2002040)

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

Copyright: 2017

Author: International Science Teaching Foundation

Grade Level: 6 - 8

#### Content

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

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A. Alignment with curriculum1. A. The content aligns with the state's standards and benchmarks for subject, grade level and learning outcomes.

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

Most of the standards 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: Content can be comprehended by 6th grade students. Might be boring to Advanced students.
3. A. The materials are adaptable and useful for classroom instruction.
VERY GOOD ALIGNMENT ■ GOOD ALIGNMENT ■ FAIR ALIGNMENT ■ POOR ALIGNMENT ■ VERY POOR/NO ALIGNMENT Justification: These materials could be useful.
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: Yes the materials provide enough details.
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: Difficulty matches the standards.
6. B. The level (complexity or difficulty) of the treatment of content matches the student abilities and grade level.
VERY GOOD ALIGNMENT OF GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: 6th grade students would comprehend the content in the format used.
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: Teachers can adjust how long each topic is covered.
C. Expertise for Content Development8. C. The primary and secondary sources cited in the materials reflect expert information for the subject.
VERY GOOD ALIGNMENT
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:    Wikipedia is not a reliable resource.
D. Accuracy of Content10. D. The content is presented accurately. (Material should be devoid of typographical or visual errors).
VERY GOOD ALIGNMENT ● GOOD ALIGNMENT → FAIR ALIGNMENT → POOR ALIGNMENT → VERY POOR/NO ALIGNMENT Justification: I could not find errors.
11. D. The content of the material is presented objectively. (Material should be free of bias and contradictions and is noninflammatory in nature).
VERY GOOD ALIGNMENT   GOOD ALIGNMENT  FAIR ALIGNMENT  POOR ALIGNMENT  VERY POOR/NO ALIGNMENT  Justification: I could not find bias.
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: Content given is science related.
13. D. The content of the material is factual accurate. (Materials should be free of mistakes and inconsistencies).
VERY GOOD ALIGNMENT OGOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Yes factual material.
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: Yes content was up to date

15. E. The content is presented to the curriculum, standards, and benchmarks in an appropriate and relevant context.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Content is appropriate for the curriculum and standards/ benchmarks.
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: Level is appropriate for 6th graders.
F. Authenticity of Content17. F. The content includes connections to life in a context that is meaningful to students.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: The connections to life are relevant.
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: Poor social studies and historical connections. Math/ Language Arts connections are in the Engage section.
<b>G. Multicultural Representation</b> 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: I didn't see any bias or unfair portrayals.
<b>H. Humanity and Compassion</b> 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: Portrayals were appropriate.
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: The benchmarks and standards are covered in this material.

### Presentation

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A. Comprehensiveness of Student and Teacher Resources 1. A. The comprehensiveness of the student resources address the targeted
learning outcomes without requiring the teacher to prepare additional teaching materials for the course.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
The student resources do address the learning out comes, but I believe 6th grade students will be click happy and not read for comprehension.
B. Alignment of Instructional Components 2. B. All components of the major tool align with the curriculum and each other.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: The components align with the curriculum.
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 organization of the way ScienceBits organized the content was logical.
<b>D. Readability of Instructional Materials</b> 4. D. Narrative and visuals engage students in reading or listening as well as in understanding of the content at a level appropriate to the students' abilities.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: The voices of the video were clear and easy to understand and the pace of the speech was just right. Visuals were clear.
<b>E. Pacing of Content</b> 5. E. The amount of content presented at one time or the pace at which it is presented must be of a size or rate that allows students to perceive and understand it.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
The chunking of the material was significant to 6th grade cognitive ability.
<b>Accessibility</b> 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: The navigation tools were accessible.
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 material for the benchmarks was present through the unit, very cut and dry.

## Learning

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A. Motivational Strategies 1. A. Instructional materials include features to maintain learner motivation.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT
Justification: I don't see the 6th grade student being motivated very long with this program. I think they will become "happy clickers" quickly just to move through the slides.
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 material did touch on the big idea, but not much more than surface skimming of content. Not much depth,
C. Explicit Instruction3. C. The materials contain clear statements of information and outcomes.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT
Justification: The presentation was clear about what the student was going to need to do, mostly answer questions or click on the multiple choice buttons.
<b>D. Guidance and Support</b> 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: I didn't feel like I was independently thinking as I was clicking through the slides. I didn't have the opportunity to manipulate or test anything
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: Few manipulatives that I could find, students didn't interact with vocabulary words at all. I did have to sort some scientists to their field of study.
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: Students had to type responses, and sort scientists and their fields of study. No vocabulary work that I could find. No pre-fix or suffix support,
7. E. Rate how well the materials include organized activities that are logical extensions of content, goals, and objectives.
○ VERY GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
The activities included were logical extensions of content and objectives.
<b>F. Targeted Instructional Strategies</b> 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:  Materials were sufficient.
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: Strategies were sufficient for student 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: Assessment strategies were relative.
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: Students had to respond to a passage and would be an effective way to assess learning.
Universal Design for Learning 12. 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: Advanced students will be BORED out of their minds.
Mathematical Practice 13. 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: I did not have to do any math.
14. In general, does the submission satisfy LEARNING requirements? (The comments should support your responses to the questions in the Learning section.)
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:  I did not experience cross curricular materials. Social studies and Math standards were not witnessed. ELA was mastered when students had to respond to the passages or sort scientists in their fields of study.

#### **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: <a href="http://www.cpalms.org/Uploads/docs/CPALMS/initiatives/contentcomplexity/CPALMS">http://www.cpalms.org/Uploads/docs/CPALMS/initiatives/contentcomplexity/CPALMS</a> 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.E.6.1:** Describe and give examples of ways in which Earth's surface is built up and torn down by physical and chemical weathering, erosion, and deposition.

○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT lustification:

Videos and pictures of erosion, weathering and deposition were given. The experiment was video based with students responding to what was happening.

2. **SC.6.E.6.2:** Recognize that there are a variety of different landforms on Earth's surface such as coastlines, dunes, rivers, mountains, glaciers, deltas, and lakes and relate these landforms as they apply to Florida.

VERY GOOD ALIGNMENT OF SOOD ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification:

I did not see references to Florida specifically and the pictures and videos were not of Florida's flat coast line, examples were given from cliff and rocky coasts.

3. SC.6.E.7.1: Differentiate among radiation, conduction, and convection, the three mechanisms by which heat is transferred through Earth's
system.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:  Content does explain and give examples of each.
4. SC.6.E.7.2: Investigate and apply how the cycling of water between the atmosphere and hydrosphere has an effect on weather patterns and climate.
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: Students had to read and evaluate some line graphs about weather conditions. I didn't see bar graphs or circle graphs.
5. <b>SC.6.E.7.3:</b> Describe how global patterns such as the jet stream and ocean currents influence local weather in measurable terms such as temperature, air pressure, wind direction and speed, and humidity and precipitation.
Remarks/Examples: Florida Standards Connections: MAFS.K12.MP.5: Use appropriate tools strategically MAFS.K12.MP.6: Attend to precision and, MAFS.K12.MP.7: Look for and make use of structure.
VERY GOOD ALIGNMENT OGOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT
Justification: I could not find reference to jet streams specifically. Students did not have to complete an experiment by themselves in order to attend to precision or comment on the units used.
6. SC.6.E.7.4: Differentiate and show interactions among the geosphere, hydrosphere, cryosphere, atmosphere, and biosphere.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
I could not find anything relating the actions of the geosphere, hydrosphere, cryosphere, atmosphere, and biosphere with eachother.
7. <b>SC.6.E.7.5:</b> Explain how energy provided by the sun influences global patterns of atmospheric movement and the temperature differences between air, water, and land.
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: I could not find information on temperature differences between air, water and land.
8. SC.6.E.7.6: Differentiate between weather and climate.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ◎ VERY POOR/NO ALIGNMENT
Justification: Weather and climate are mentioned in 1 sentence.
9. SC.6.E.7.7: Investigate how natural disasters have affected human life in Florida.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT  Justification: Reference is given to thunderstorms, winter storms, hurricanes and tornadoes but no references to how they have impacted human life in
Florida; no historical data of major hurricanes such as Andrew, Charlie or any recent (since 2004), no pictures, no graphs, nothing about wind speeds (for hurricanes nor tornadoes) are given
10. SC.6.E.7.8: Describe ways human beings protect themselves from hazardous weather and sun exposure.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ◎ VERY POOR/NO ALIGNMENT Justification:
No mention of how to be safe during thunderstorms, winter storms, hurricanes nor tornadoes.
11. SC.6.E.7.9: Describe how the composition and structure of the atmosphere protects life and insulates the planet.
Remarks/Examples:
Remarks/Examples:

https://web01.fldoe.org/InstructMat/Admin/Reviews/printReviewItem.aspx?rassignmentID=28382

atmosphere was not given

12. SC.6.L.14.1: Describe and identify patterns in the hierarchical organization of organisms from atoms to molecules and cells to tissues to organs to organ systems to organisms. Remarks/Examples: Florida Standards Connections: MAFS.K12.MP.7: Look for and make use of structure. VERY GOOD ALIGNMENT OGOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Does not make connection from organ system to organism. 13. SC.6.L.14.2: Investigate and explain the components of the scientific theory of cells (cell theory): all organisms are composed of cells (single-celled or multi-cellular), all cells come from pre-existing cells, and cells are the basic unit of life. VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: No information on the cell theory, nor the men involved in creating the cell theory. 14. SC.6.L.14.3: Recognize and explore how cells of all organisms undergo similar processes to maintain homeostasis, including extracting energy from food, getting rid of waste, and reproducing. VERY GOOD ALIGNMENT OGOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Gives definition of homeostasis but does not talk about why cells have to reproduce. 15. SC.6.L.14.4: Compare and contrast the structure and function of major organelles of plant and animal cells, including cell wall, cell membrane, nucleus, cytoplasm, chloroplasts, mitochondria, and vacuoles. Remarks/Examples: Florida Standards Connections: MAFS.K12.MP.7: Look for and make use of structure. UERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: 2 presentation slides are given on plant and animal cells with a diagram included. 16. SC.6.L.14.5: Identify and investigate the general functions of the major systems of the human body (digestive, respiratory, circulatory, reproductive, excretory, immune, nervous, and musculoskeletal) and describe ways these systems interact with each other to maintain homeostasis. VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Discusses all of the major organ systems. 17. SC.6.L.14.6: Compare and contrast types of infectious agents that may infect the human body, including viruses, bacteria, fungi, and parasites. Remarks/Examples: Integrate HE.6.C.1.8. Explain how body systems are impacted by hereditary factors and infectious agents. VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Many slides comparing and contrast bacteria, fungi. 18. SC.6.L.15.1: Analyze and describe how and why organisms are classified according to shared characteristics with emphasis on the Linnaean system combined with the concept of Domains. VERY GOOD ALIGNMENT 
GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Many slides pertaining to Linnaean system and explains domains. 19. 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/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: Each unit has an engage section where students answer questions, watch video animations, analyze/ interpret graphs, collect data. They do NOT plan an investigation on their own. I did not see identification of independent/manipulated, dependent/ outcome nor the control 20. SC.6.N.1.2: Explain why scientific investigations should be replicable. VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT I did not find any reference to replication nor repetition. 21. 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 GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: While each unit does have an investigation I did NOT find reference to benefits or limitations of any type of scientific investigation (nothing about field work, laboratory, no reference to observation only investigations). And nothing on types of variables. 22. 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
GOOD ALIGNMENT
FAIR ALIGNMENT
POOR ALIGNMENT
VERY POOR/NO ALIGNMENT I did not see any such section in any unit where students compare results of the same investigation. All investigations were animation with no way to change the outcomes for different results and comparison. 23. 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 GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT One slide briefly discusses creativity in science, no examples given on how scientists show creativity in explanations and designing experiments, 24. 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 One slide that mentions the natural world but nothing about mental or intellectual subject consciousness. 25. 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 One slide talks about new observations might make our previous explanations obsolete and that we need to be able to explain both old and new observations. This is very ambiguous. 26. 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 GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Lists 8 "most well-known personalities", lists their birth and death years but not their nationality. One or 2 sentences describe the personality but does not talk about varied talents, interests or goals. 27. 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. USERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT

Justification:

Definition of theory is poorly written "a theory is an explanation of the causes of the observed laws" and then "Scientific theories are the explanations which we infer in trying to find the causes of the laws. Theories are the proposals that attempt to explain phenomena". Does not talk about how many people support claims not reference to every day life theories. 28. 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. USERY GOOD ALIGNMENT OGOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Discusses laws but does not differentiate between societal laws and scientific laws. Poor examples explaining laws. 29. SC.6.N.3.3: Give several examples of scientific laws. VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Only a picture of The opposed poles of a magnet attract in Unit called What is Science. In unit on forces contains slides discussing Newton's laws are given with some examples. The explore section in the unit on Force's has mediocre animations and investigations. 30. 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: I didn't see any information pertaining to models in the Unit called What is Science and nothing in the Unit on Formed by cells or Living 31. 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 Good virtual simulations on potential and kinetic energy in the Unit called Energy. 32. 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 Justification: The explore section in the Unit called Forces has 1 graph for the students to answer questions about does not mention constant speed in the explain section either, and does not give a graph showing what constant speed looks like, 33. 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. USERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Evidence of contact forces, forces acting at a distance, electrical, magnetic and gravitational forces was found in the Unit on Forces. 34. 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: There is an interactive to show mass and gravity. 35. 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 OGOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: I can not find reference to unbalanced forces changing direction of motion. The videos given in unit on Forces do not talk about changing motion, they list everything as balanced. 36. LAFS.6.SL.1.1: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 6 topics, texts, and issues, building on others' ideas and expressing their own clearly. a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation by referring to evidence on the

- b. Follow rules for collegial discussions, set specific goals and deadlines, and define individual roles as needed. c. Pose and respond to specific questions with elaboration and detail by making comments that contribute to the topic, text, or issue under

topic, text, or issue to probe and reflect on ideas under discussion.

discussion.
d. Review the key ideas expressed and demonstrate understanding of multiple perspectives through reflection and paraphrasing.
VERY GOOD ALIGNMENT ☐ GOOD ALIGNMENT ☐ FAIR ALIGNMENT ☐ POOR ALIGNMENT ☐ VERY POOR/NO ALIGNMENT Justification: I could not find specific text on issues where students were able to read and discuss in "collegial discussions". There are not specific ideas to support this benchmark provided with this program.
37. LAFS.6.SL.1.2: Interpret information presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how it
contributes to a topic, text, or issue under study.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
I could not find links to outside media associated with this program. The teacher would have to pull from outside resources to find text on issues to interpret information. There are not specific ideas to support this benchmark provided with this program.
38. <b>LAFS.6.SL.1.3:</b> Delineate a speaker's argument and specific claims, distinguishing claims that are supported by reasons and evidence from claims that are not.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification:
I could not find any passages in the program for students to argue about or support. Teacher would have to pull from outside resources. There are not specific ideas to support this benchmark provided with this program.
39. <b>LAFS.6.SL.2.4:</b> Present claims and findings, sequencing ideas logically and using pertinent descriptions, facts, and details to accentuate main ideas or themes; use appropriate eye contact, adequate volume, and clear pronunciation.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT
Justification: Students could present information from the program based on the information in each unit. There are not specific ideas to support this benchmark provided with this program.
40. LAFS.6.SL.2.5: Include multimedia components (e.g., graphics, images, music, sound) and visual displays in presentations to clarify
information.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: The program does include graphics, images and visual displays but it is unclear if they could be included/ linked in multimedia components for student presentations in outside applications such as iMovie/or PowerPoint presentations. There are not specific ideas to support this benchmark provided with this program.
41. 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: I could not find technical texts or science passages. There are not specific ideas to support this benchmark provided with this program.
42. <b>LAFS.68.RST.1.2:</b> 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:  No external scientific text included other than the lessons. Students could summarize the included lessons. There are not specific ideas provided with this program.
43. <b>LAFS.68.RST.1.3:</b> 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: Each unit has an Engage and an Elaborate section where students can follow procedures to experiment, take measurements and other technical tasks.
44. <b>LAFS.68.RST.2.4</b> : 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: Each unit has vocabulary words explained/ defined. I could not find a separate glossary of terms.
45. <b>LAFS.68.RST.2.5:</b> 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:

The organization of each unit is well labeled and short enough that 6 grade students could keep up. Pictures and diagrams or videos are included with each topic.There are not specific ideas to support this benchmark provided with this program.
46. 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:  Each unit has an explore and an engage section where experiments have some text to accompany. There are not specific ideas to support this benchmark provided with this program.
47. 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:
Many diagrams, graphs incorporated with each unit. There are not specific ideas to support this benchmark provided with this program.
48. 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:
Text associated with each unit gives facts. There are not specific ideas to support this benchmark provided with this program.
49. <b>LAFS.68.RST.3.9:</b> 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: Students will be able to compare and contrast information because there are simulations included with each unit in the Explore section but there are not any other texts given to compare other than the explain sections. There are not specific ideas to support this benchmark provided with this program.
50. LAFS.68.WHST.1.1: Write arguments focused on discipline-specific content.
<b>a.</b> 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>b.</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.
<b>c.</b> 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:
Students should be able to write arguments that would support this benchmark regardless of ability based on the content included. There are not extra texts on issues in science. There are not specific ideas to support this benchmark provided with this program.
51. 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>b.</b> Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.
<ul> <li>c. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts.</li> <li>d. Use precise language and domain-specific vocabulary to inform about or explain the topic.</li> </ul>
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:
Students should be able to support this benchmark with the content included, the program might be a little weak on the historical events in some units other than the unit called "What is science" and outside resources will be needed. There are not specific ideas to support this benchmark provided with this program.
52. 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:
Depending on what writing the teacher wants students to produce, students should be able to produce a writing with scientific information based on the content contained in this program. There are not specific ideas to support this benchmark provided with this program.

53. <b>LAFS.68.WHST.2.5:</b> 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.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
Depending on the writing preferences of the teacher using this curriculum, written assignments can be included. There are not specific ideas to support this benchmark provided with this program.
54. <b>LAFS.68.WHST.2.6:</b> Use technology, including the Internet, to produce and publish writing and present the relationships between information and ideas clearly and efficiently.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification:  There are not specific ideas to support this benchmark provided with this program. The teacher would have to utilize other technology to produce and publish writing.
55. <b>LAFS.68.WHST.3.7:</b> 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:  Each unit has an Engage section where students can research. There are not specific ideas to support this benchmark provided with this program. Extra sources will have to be located.
56. <b>LAFS.68.WHST.3.8:</b> 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.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: There are not specific ideas to support this benchmark provided with this program. Teacher would have to pull from other sources to support this benchmark.
57. <b>LAFS.68.WHST.3.9:</b> 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:  There are not specific ideas to support this benchmark provided with this program. No informational texts given except those in the Explain section of each unit.
58. <b>LAFS.68.WHST.4.10:</b> Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
There are not specific ideas to support this benchmark provided with this program. Teacher will have to use external resources.
59. <b>MAFS.6.EE.3.9:</b> Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation d = 65t to represent the relationship between distance and time.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: This could be utilized in the unit on Force in the Engage section.
60. MAFS.6.SP.2.4: Display numerical data in plots on a number line, including dot plots, histograms, and box plots.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification:
Teacher would have to pull from other resources to get numerical data. Some plotting is done in the Engage sections.
61. MAFS.6.SP.2.5: Summarize numerical data sets in relation to their context, such as by:
<ul> <li>a. Reporting the number of observations.</li> <li>b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.</li> <li>c. Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.</li> </ul>
<b>d.</b> 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: The Engage section in each unit has some numerical data. Teacher would have to pull outside resources.
62. <b>HE.6.C.1.3</b> : Identify environmental factors that affect personal health.
Remarks/Examples: Air and water quality, availability of sidewalks, contaminated food, and road hazards.
○ VERY GOOD ALIGNMENT ○ GOOD ALIGNMENT ○ FAIR ALIGNMENT ○ POOR ALIGNMENT ○ VERY POOR/NO ALIGNMENT Justification: No mention of air quality and health in Weather and Atmosphere. Some mention of water potability in Planet Water unit.
63. <b>HE.6.C.1.5:</b> Explain how body systems are impacted by hereditary factors and infectious agents.
Remarks/Examples:  Cystic fibrosis affects respiratory and a digestive system, sickle-cell anemia affects the circulatory system, and influenza affects the respiratory system.
VERY GOOD ALIGNMENT GOOD ALIGNMENT FAIR ALIGNMENT POOR ALIGNMENT VERY POOR/NO ALIGNMENT Justification: Unit on Human nutrition discusses this benchmark.
64. <b>ELD.K12.ELL.SC.1:</b> 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:  Spanish is the only other language available with this program. There are not specific ideas to support this benchmark provided with this program. I could not find any reference to this benchmark.
65. 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:  Spanish is the only other language available with this program. There are not specific ideas to support this benchmark provided with this program. I could not find any reference to this benchmark.