

2018 Instructional Material Summer Review Institute
Grade K-12: Science Instructional Material
Review Team Appraisal of Title – K-12 Science Education

This information is provided for local school boards and governing authorities of charter schools to consider in their selection process to meet the needs of their student population.

Text Title:	<u>Elevate Science: Earth</u>	Publisher:	<u>Pearson Education</u>
Course:	<u>Science</u>	Grade Level:	<u>6-8</u>
SE ISBN:	<u>9780328989751</u>	TE ISBN:	<u>9780328953868</u>
SW ISBN:	<u>9780328953868</u>		

SECTION 1 – NM Content Standards, Benchmarks and Performance Standards

Reviewer # and Section 1 Total: # 28 TOTAL 94.4% #29 TOTAL 93.4% #30 TOTAL 100%
Average Score: 95.9%

Review Team Assessment of material’s compliance with Section 1:

This material has high usability for teachers at all stages of mastery. It provides professional development and content refreshers to help teachers build background knowledge. There are interactivities, labs, and videos built into every topic. This gives teachers choice on instruction delivery. NGSS standards were met in most areas. Connections to Common Core State Standards for math and ELA were also listed throughout each lesson. The DoK data is on a progressive point scale to help teachers assess students towards mastery. Differentiated instruction is provided for both struggling and advanced learners. There are frequent opportunities for the application of scientific reasoning. Each topic (chapter) has an essential question that is expanded on in each lesson. At the end of each topic, students have the opportunity to demonstrate the knowledge they have gained in a real-world context.

SECTION 2 Publisher’s Criteria

Reviewer # and Section 2 Total: 1. #28 TOTAL 100% 2. #29 TOTAL 100% 3. #30 TOTAL 100%
Average Score: 100%

Review Team Assessment of material’s compliance with Section 2:

Materials are user friendly with most materials in print and interactivities and videos found online. Caters to a diversity of needs in the classroom. Many opportunities for a variety of assessment. Aligned to NGSS, Common Core State Standards for math and ELA as well as Bloom’s Taxonomy levels of progression. Guidance offered to teachers who many not be proficient in the content. Diversity in photos.

Reviewer Comments

Reviewer #: 28 Reviewer Background: 9 years of experience in math and science

Comments: This book is a good choice for teachers with varying levels of experience. There are many options for teacher choice.

Reviewer #: 29 Reviewer Background: 11 years experience in middle school science.

Comments: Content is aligned with NGSS and CCSS (Math and ELA). On the spot professional development is very useful.

Reviewer #: 30 Reviewer Background: 23 years of experience

Comments: I really like this version. As I was reviewing I frequently was distracted by the material. I found myself reading excerpts and studying the lesson plan teachers notes. It was new and refreshing. Since I have taught for 20 years in grades 6-8 I have seen almost everything, but the material I saw today is presented in new ways. There were activities that took a turn from the way I have been doing them for years, and there were new and updated activities and labs. The content

standards were approached in refreshingly new ways and I am excited to have the opportunity to use them and share them with teachers in my department.

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Text Title:	<u>Elevate Science: Life</u>	Publisher:	<u>Pearson Education</u>
Course:	<u>Science</u>	Grade Level:	<u>6-8</u>
SE ISBN:	<u>9780328989744</u>	TE ISBN:	<u>9780328948680</u>
SW ISBN:	<u>9780328953875</u>		

SECTION 1 – NM Content Standards, Benchmarks and Performance Standards

Reviewer # and Section 1 Total: #25 TOTAL 90.0% #26 TOTAL 92.65 #27 TOTAL 97.18%
Average Score: 93.27%

Review Team Assessment of material’s compliance with Section 1:

The materials reviewed included a teacher guide with online access, a student interactive text and an engineering design notebook. Each topic starts with a NGSS learning progression broken down by the DCI, CCC, and SEP that are covered in each topic. The PE’s for each topic is included in the student guide. We found this set of materials as truly a 3D experience for students and teachers.

- Literacy Connections to CCSS citing evidence was repeated throughout the text
- Good balance between technology and the interactive text
- Technology components supported all learners.
- Engineering DCIs are integrated into the topics, not just at the end of a unit/topic. It did include an engineering notebook as a separate interactive workbook and was included online.
- At the end of the interactive textbook it included a science and engineering handbook which allowed quick reference.
- The access to prior knowledge was varied by type, not just focusing on one type, allowing for accessibility to all learners.
- There are multiple ways for students to access the materials by type of task students are asked to perform.

SECTION 2 Publisher’s Criteria

Reviewer # and Section 2 Total: #25 TOTAL 96.30% #26 TOTAL 92.6% #27 TOTAL 96.30%
Average Score: 95.06%

Review Team Assessment of material’s compliance with Section 2:

The material met the needs of all learners and teacher friendly in use.

- Student interactive text is engaging and easy to use, the graphics offered a wide variety of experiences for students with grade band specific task assigned.
- The student interactive allows students to engage in CCSS Math and ELA throughout the text.
- The interactivity for students was engaging and meeting the needs of all learners with multiple and varied experiences with the content.
- Opportunities for students to interact by writing, modeling, and other tasks is limited. Teachers might need to supplement by adding additional space.
- The online lab simulation offers students a different type of experience meeting the needs of learners.
- The teacher online tools are easy to navigate, download and edit.
- Scoring notes are included in the teacher supports for each question asked including DOK levels.
- Differentiation instruction for struggling, ELD and gifted students is located consistently throughout the text.
- The outlined material can be taught in 1 academic year.

- The professional learning toolbox provides teachers with a wide variety of teaching strategies to leverage student learning with checks for understanding opportunities.

Reviewer Comments

Reviewer #: 25 Reviewer Background: I have taught middle school science for fifteen years. My experience has been in two school districts and schools of three highly different socio economic backgrounds.

Comments: These materials are well aligned to NGSS. They include great engineering ideas and each topic starts with a dynamic phenomenon. The text incorporates the DCIs, CCCs, and SEPs well. The online resources are well designed and I would use them in my classroom. I highly recommend these materials to my colleagues and I would incorporate them in my curriculum.

Reviewer #: 26 Reviewer Background: I have taught middle school science for 18 years, teaching life, earth and physical sciences. I am currently a national reviewer of science materials.

Comments: These materials are aligned to NGSS in a true 3D fashion. They are easy to use and offer a multitude of experiences for students which meets the needs of the 21st century learner.

Reviewer #: 27 Reviewer Background: I have taught Science for 17 years. Three years at the high school level teaching Chemistry and Geology. Fourteen years at the middle school level. All in the same school district with a low socio-economic and high ELL population.

Comments: These materials are aligned with NGSS and are a complete representation of 3D learning. They are very user friendly and accessible, attainable, adaptable and achievable for teachers and students. I would use these materials in my classroom. They meet a wide variety of needs and learning abilities for the modern classroom.

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Text Title:	<u>Elevate Science Grade 7</u>	Publisher:	<u>Pearson Education</u>
Course:	<u>Science</u>	Grade Level:	<u>7</u>
SE ISBN:	<u>9781418301323</u>	TE ISBN:	<u>9780328948659</u>
SW ISBN:	<u>9780328952045</u>		

SECTION 1 – NM Content Standards, Benchmarks and Performance Standards

Reviewer # and Section 1 Total: #19 TOTAL 97.9% #20 TOTAL 97.9% #21 TOTAL 99%
Average Score: 98%

Review Team Assessment of material’s compliance with Section 1:

We highly recommend this curriculum for any level of teacher. The organization of Scope and Sequence, timeline for implementations, the alignment with NGSS DCI, CCC, and SEP are identified, organized, easily accessed within the TE. The SE and EDN are engaging, high level of rigor, incorporate real life applications and opportunities for students to demonstrate problem solving skills and inquiry based learning using the universal scientific practices. The EDN notebook with student led solutions for designs with scientific practices for re-design are excellent. They also offer opportunities for students to speak, write, and document mathematical computations for their designs which is interdisciplinary authentic learning. The technology available online for labs, interactives, and quest check-ins are engaging, age appropriate, and provide more connections to real world phenomenon, which are excellent for student engagement. Based on this review the next generation instructional model practices that Elevate Learning has embedded within the instructional material blends print and digital learning into a seamless student-centered experience.

SECTION 2 Publisher’s Criteria

Reviewer # and Section 2 Total: #19 TOTAL 100% #20 TOTAL 100% #21 TOTAL 100%
Average Score: 100%

Review Team Assessment of material’s compliance with Section 2:

Grade band endpoints are at the beginning of each topic and are broken down into the Next Generation Learning Progressions (SEP's, DCI's, CCC's) to help facilitators prioritize instruction and integrate the dimensions. The curriculum connects science to other disciplines and shows students how to better understand the world through Literacy, Mathematics and Reading and Writing. Scaffolding Questions are provided for teacher use for each lesson. Students are asked to cite, compute, analyze and design therefore you have a range of instructional opportunities that cover DOK1 - DOK 3. The student book is a consumable and teacher edition has the student book embedded within. Students who struggle on any given assessment will automatically be assigned an online remediation activity to further support their learning. The vocabulary is highlighted, referenced, and attached to a learning target through using identification, creating models, or performing experiments. The math connections are real world problems, aligned to grade level standards.

Reviewer Comments

Reviewer #: 19

Reviewer Background: *2018 Course Map team for New Stem Ready standards and NGSS adoption, Teacher Liaison 17-18, Secretary Teacher Advisor 18-19, National Geographic certified, Exemplary in Science

Comments:

Reviewer #: 20 Reviewer Background: 22 years of teaching experience, Science Literacy Coach (4 years), LANLF Teacher Leader Cadre, MSS Facilitator for NMPED.

Comments:

Reviewer #: 21 Reviewer Background: Master's in Curriculum, Instruction, and Assessment, 21 years Middle School Math/Science experience in the classroom, Teacher Leader for Math Dept., NISL, NMLead, Admin certification, Golden Apple nominee, Educators Rising leader, MC2 collaboration

Comments:

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Text Title:	<u>Elevate Science Grade 6</u>	Publisher:	<u>Pearson Education</u>
Course:	<u>Science</u>	Grade Level:	<u>6</u>
SE ISBN:	<u>9781418295899</u>	TE ISBN:	<u>9780328925070</u>
SW ISBN:	<u>9780328952038</u>		

SECTION 1 – NM Content Standards, Benchmarks and Performance Standards

Reviewer # and Section 1 Total: #28 TOTAL 90.6% #29 TOTAL 84.3% #30 TOTAL 93.7%
Average Score: 86.2%

Review Team Assessment of material’s compliance with Section 1:
Materials meet most NGSS Standards. Ease of usability for teachers is high, including lesson planning with scaffolding and differentiation for ELL and ELD as well as struggling students and advanced students. Professional development and content review is also included. There are frequent opportunities to support standards in scientific inquiry, science and society and technology and engineering processes. The vast majority of the materials met NGSS, Math, and ELA Standards. Opportunity for professional development and teacher support is present in the text book. A first year teacher would be provided plenty of support within the teacher’s edition. There were gaps in citations as well as missing citations.

SECTION 2 Publisher’s Criteria

Reviewer # and Section 2 Total: #28 TOTAL 100% #29 TOTAL 100% #30 TOTAL 100%
Average Score: 100%

Review Team Assessment of material’s compliance with Section 2:
This text meets compliance because of the high frequency of alignment with Bloom’s taxonomy and Webb’s DoK. Provides support for various learners at different proficiency levels. There are multiple summative and formative assessments available. Equity in diversity is visible throughout the text including graphics, videos, Quests, and Connect It features. Learning progressions are also aligned with DCIs, CCCs and SEPs as well as CCSS Math and ELA. Bloom’s Taxonomy was mostly high and complementary to most activities such as labs and investigations. Support was provided for struggling students, advanced students, and ESL/ELL/ELD students (differentiated instruction).

Reviewer Comments

Reviewer #: 28 Reviewer Background: 9 years
Comments: This course has the potential to be great, but needs to be condensed into one text (currently it is in 3). Lots of labs are included that are aligned to standards to help further student learning. Teachers must do labs to hit all standards.

Reviewer #: 29 Reviewer Background: 11 years
Comments: This textbook would be useful for beginning teachers, however, the book needs a deep revision. I am unable to recommend the book as written.

Reviewer #: 30 Reviewer Background: 23 years
Comments: Elevate science course needs alignment and some revisions changes before it can be successfully implemented in the classroom. As is, I would not recommend it to my team of teachers other than as supplemental material.

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Text Title:	<u>Elevate Science Grade 7</u>	Publisher:	<u>Pearson Education</u>
Course:	<u>Science</u>	Grade Level:	<u>7</u>
SE ISBN:	<u>9781418301323</u>	TE ISBN:	<u>9780328948659</u>
SW ISBN:	<u>9780328952045</u>		

SECTION 1 – NM Content Standards, Benchmarks and Performance Standards			
Reviewer # and Section 1 Total:	# <u>28</u> TOTAL <u>98.8%</u>	# <u>29</u> TOTAL <u>92.3%</u>	# <u>30</u> TOTAL <u>99.7%</u>
Average Score: <u>96.9%</u>			
<p>Review Team Assessment of material’s compliance with Section 1: The vast majority of NGSS standards were addressed appropriately in the textbook and online. There are many labs to help compliment the lessons and give students a chance for hands-on learning. Materials are user friendly for teachers of all levels of mastery. Novice teachers will find this book easy to use because there is a lesson planner at the beginning of each lesson to help scaffold lessons. Book layout is easy to follow with color-coding. Good combination of print and online materials. Vast amount of support material and information allows for more teacher selection/customization (pedagogy). Differentiated instruction is found throughout the text. Assessments are aligned with the higher level of Bloom’s taxonomy and NGSS standards. Learning progressions move learners from basic knowledge, through prior knowledge correlations and into real life/world applications.</p>			
SECTION 2 Publisher’s Criteria			
Reviewer # and Section 2 Total:	# <u>28</u> TOTAL <u>100%</u>	# <u>29</u> TOTAL <u>100%</u>	# <u>30</u> TOTAL <u>96.3%</u>
Average Score: <u>98.8%</u>			
<p>Review Team Assessment of material’s compliance with Section 2: Materials are user friendly with most materials in print and interactivities and videos found online. Caters to a diversity of needs in the classroom. Many opportunities for a variety of assessment. Aligned to NGSS and Bloom’s Taxonomy levels of progression. Guidance offered to teachers who many not be proficient in the content. Diversity in photos.</p>			
Reviewer Comments			
<p>Reviewer #: <u>28</u> Reviewer Background: 9 years of experience Comments: Many lab opportunities (interactivities) from which to choose. Teachers must do labs in order to meet standards.</p> <p>Reviewer #: <u>29</u> Reviewer Background: 11 years of experience Comments: Opportunity for differentiated instruction through activities are present. Contents make references to math standards, though not explicitly.</p> <p>Reviewer #: <u>30</u> Reviewer Background: 23 years of experience Comments: I like these materials, I think they provide high usability of ease for teachers at all stages of their careers and comfort levels with the content. There is plenty of support material and teachers who are uncomfortable with labs and activities are encouraged to try new things and are given multiple opportunities to meet standards in a variety of ways.</p>			

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Text Title:	<u>Elevate Science Grade 8</u>	Publisher:	<u>Pearson Education</u>
Course:	<u>Science</u>	Grade Level:	<u>8</u>
SE ISBN:	<u>9781418301330</u>	TE ISBN:	<u>9780328948666</u>
SW ISBN:	<u>9780328952052</u>		

SECTION 1 – NM Content Standards, Benchmarks and Performance Standards

Reviewer # and Section 1 Total: #28 TOTAL 94.24 #29 TOTAL 93.44 #30 TOTAL 100
Average Score: 95.89

Review Team Assessment of material’s compliance with Section 1:
Materials meet most NGSS Standards. Ease of usability for teachers is high including lesson planning with scaffolding and differentiation for ELL and ELD as well as struggling students and advanced students. Professional development and content review is also included. There are frequent opportunities to support standards in scientific inquiry, science and society and technology and engineering processes. The vast majority of the materials met NGSS, Math, and ELA Standards. Opportunity for professional development and teacher support is present in the text book. A first year teacher would be provided plenty of support within the teacher’s edition.

SECTION 2 Publisher’s Criteria

Reviewer # and Section 2 Total: #28 TOTAL100 #29 TOTAL100 #30 TOTAL 100
Average Score: 100

Review Team Assessment of material’s compliance with Section 2:
This text meets compliance because of the high frequency of alignment with Bloom’s taxonomy and Webb’s DoK. Provides support for various learners at different proficiency levels. There are multiple summative and formative assessments available. Equity in diversity is visible throughout the text including graphics, videos, Quests, and Connect It features. Learning progressions are also aligned with DCIs, CCCs and SEPs as well as CCSS Math and ELA. Bloom’s Taxonomy was mostly high and complementary to most activities such as labs and investigations. Support was provided for struggling students, advanced students, and ESL/ELL/ELD students (differentiated instruction).

Reviewer Comments

Reviewer #: 28 Reviewer Background: 9 years
Comments: Course had high usability for teachers. Many quality labs are included, but you must log into the Pearson website to gain access to them.

Reviewer #: 29 Reviewer Background: 11 years
Comments: Higher levels of learning as complimented by the NGSS as well as CCSS in Math and ELA. Support for teachers present in Teacher’s Edition.

Reviewer #: 30 Reviewer Background: 23 years
Comments:

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Text Title:	Miller & Levine Biology	Publisher:	Pearson Education
Course:	Science	Grade Level:	9-12
SE ISBN:	9780328990023	TE ISBN:	9780328925131
SW ISBN:			

SECTION 1 – NM Content Standards, Benchmarks and Performance Standards

Reviewer # and Section 1 Total: 1. #40 TOTAL 90 2. #41 TOTAL 90 3. #42 TOTAL 91.6
 Average Score: 90.5

Review Team Assessment of material’s compliance with Section 1:
 This was a rigorous textbook with a Lexile of 1110. The text contained a variety of activities; including quick labs, modeling, authentic articles, case studies, and project-based learning activities. The online resources included videos, follow up questions, text-to-speech for reading the textbook, and interactive activities. The teacher edition has predesigned rubrics that correlate with the project-based learning. Under online enrichment activities, career connections and HHMI authentic research projects are provided. The lesson review at the end of each lesson provide a quick check for understanding. The NM standards are not met implicitly in the materials. The DOK level for most of the SEP and CCC are at the application level as opposed to the analysis level.

SECTION 2 Publisher’s Criteria

Reviewer # and Section 2 Total: 1. #40 TOTAL 92.59 2. #41 TOTAL 92.59 3. #42 TOTAL 96.3
 Average Score: 93.83

Review Team Assessment of material’s compliance with Section 2:
 The teacher edition has many great resources. For example, there are language development and writing skills for ELL learners. There are suggestions on using vocabulary. They provide information on integrating lab technology into the course. The pacing guide at the beginning of the book is realistic for blocked and traditional class lengths. It does take effort to find materials that align with the NGSS SEPs and CCCs that correlate with the DCIs with a high Bloom’s taxonomy level. The real world applications are not personalized to the students’ experiences, but instead are generalized for scientists. The pictures throughout the text are diverse in gender and race but lack diversity in terms of people with disabilities, range of ages, and other cultures.

Reviewer Comments

Reviewer #: 40 Reviewer Background: 18 years in education, teacher, specialist, principal, director
 Comments: I liked their short lesson review after each section and I liked the resources for differentiation and ELL.

Reviewer #: 41 Reviewer Background: 12 years teaching, NCBT, regular, honors, and AP Biology
 Comments: I liked the rigor, especially for a Biology-On-Top curriculum. I liked the variety of instructional methods. I liked how the diagrams were well labeled and added to the text.

Reviewer #: 42 Reviewer Background: 21 years teaching, high school, regular, honors, AP, level 3

Comments: I really liked the online component and the textbook content is at a reasonable lexile. Ancillary materials were readily available and useful.