



TEXAS TECH UNIVERSITY  
TTU K-12™

May 29, 2020

Chelaine Marion, M. Ed.  
Director of Foundation Education  
Curriculum Standards and Student Support Division  
Texas Education Agency  
1701 N. Congress  
Austin, TX 78701

RE: 2020 Credit by Examination Audit

Please find attached a list of the most recent Credit by Examination (CBE) audits for May 2020. There are 26 CBEs included in this audit, and these represent 20% of our currently active examinations. This is the twelfth year of the audit and thus the second year of the current five-year cycle. This year's selections focused on science (kindergarten through high school) and social studies (high school only). Where indicated, we have passed auditor feedback to our curriculum department for author review and revision.

As in previous years, our auditors are all Texas-certified instructors who are not otherwise affiliated with Texas Tech University Independent School District (TTUISD / TTU K-12). Heather Finley Abel audited the kindergarten science exams. The middle school science exams were audited by Sarah Burleson, and the high school science exams were audited by Jason Bair and Micaela Brown. The high school social studies exams were audited by Burt Montgomery.

The audit was well underway when the COVID-19 transition to remote teaching occurred, and the audit process was not directly affected by this unexpected event. As our auditors are independent evaluators, they routinely conduct their reviews asynchronously and off-site. However, all of our auditors were personally or professionally challenged by the situation; many of them have teaching positions in local ISDs and faced the same work/life issues that we all have encountered. To that end, all were given as much additional time as they needed to fully complete their assigned reviews.

If you have any questions regarding these CBEs or our audit process, please don't hesitate to contact me at (806) 742-7227 or by email at [Justin.Louder@ttu.edu](mailto:Justin.Louder@ttu.edu).

We greatly appreciate your support.

A handwritten signature in blue ink that reads "Justin R. Louder".

Justin R Louder, EdD  
Associate Vice Provost  
Interim Superintendent, TTU K-12  
Texas Tech University



Detailed Results of the 2019 CBE Audit for TTUISD

| CBE Title                          | Results  | Detailed Summary of Auditor Responses  | Action Taken                                       |
|------------------------------------|--|--|--|
| KIND SCI K - Science, Kindergarten | <ul style="list-style-type: none"> <li>-Aligned with TEKS</li> <li>-Contains appropriate breadth of coverage of TEKS with changes specified</li> <li>-Contains appropriate level of rigor for TEKS covered with changes specified</li> </ul> | <p>General comments provided. Specific comments provided for the following questions: 26, 32.</p> <p>TEKS not assessed: 3A, 6C, 7A, 10C.</p>               | Referred to Curriculum for author review/revision. |
| ELEM SCI 1 - Science, Grade 1      | <ul style="list-style-type: none"> <li>-Aligned with TEKS</li> <li>-Contains appropriate breadth of coverage of TEKS with changes specified</li> <li>-Contains appropriate level of rigor for TEKS covered with changes specified</li> </ul> | <p>General comments provided. Specific comments provided for the following questions: 24, 49, 57.</p> <p>TEKS not assessed: 2D, 3A, 4B, 5C.</p>            | Referred to Curriculum for author review/revision. |
| ELEM SCI 2 - Science, Grade 2      | <ul style="list-style-type: none"> <li>-Aligned with TEKS</li> <li>-Contains appropriate breadth of coverage of TEKS</li> <li>-Contains appropriate level of rigor for TEKS covered</li> </ul>   | <p>General comments provided. Specific comments provided for the following questions: 48, 54-57, 60.</p> <p>TEKS not assessed: 2D, 2F, 3A, 3C, 5C, 5D.</p> | Referred to Curriculum for author review/revision. |
| ELEM SCI 3 - Science, Grade 3      | <ul style="list-style-type: none"> <li>-Aligned with TEKS</li> <li>-Contains appropriate breadth of coverage of TEKS</li> <li>-Contains appropriate level of rigor for TEKS covered</li> </ul>   | TEKS not assessed: 5D, 6C, 7C.   | None.  |

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| <p>MID SCI 6A - Science 6, first semester</p>  | <ul style="list-style-type: none"> <li>-Aligned with TEKS with changes specified</li> <li>-Contains appropriate breadth of coverage of TEKS with changes specified</li> <li>-Contains appropriate level of rigor for TEKS covered with changes specified</li> </ul> | <p>General comments provided. Specific comments provided for the following questions: 8, 9, 14, 18, 19, 24, 27, 28, 36.</p> <p>TEKS lacking adequate coverage (for SCI 6A and 6B combined): 6A, 8B, 8E, 9C, 12A.</p>  | <p>Referred to Curriculum for author review/revision.</p> |
| <p>MID SCI 6B - Science 6, second semester</p> | <ul style="list-style-type: none"> <li>-Aligned with TEKS with changes specified</li> <li>-Contains appropriate breadth of coverage of TEKS with changes specified</li> <li>-Contains appropriate level of rigor for TEKS covered with changes specified</li> </ul> | <p>General comments provided. Specific comments provided for the following questions: 3, 9, 12, 17, 28.</p> <p>TEKS lacking adequate coverage (for SCI 6A and 6B combined): 6A, 8B, 8E, 9C, 12A.</p>  | <p>Referred to Curriculum for author review/revision.</p> |
| <p>MID SCI 7A - Science 7, first semester</p>  | <ul style="list-style-type: none"> <li>-Aligned with TEKS with changes specified</li> <li>-Contains appropriate breadth of coverage of TEKS with changes specified</li> <li>-Contains appropriate level of rigor for TEKS covered with changes specified</li> </ul> | <p>General comments provided. Specific comments provided for the following questions: 13-19, 24, 26, 27, 32, 34, 46, 49, 50.</p> <p>TEKS lacking adequate coverage (for SCI 7A and 7B combined): 8C, 9B, 10A, 10C, 11A, 11B, 11C, 12F, 13B.</p> <p>TEKS not assessed (for SCI 7A and 7B combined): 7B, 10B, 12E, 13A.</p> | <p>Referred to Curriculum for author review/revision.</p> |

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| <p>MID SCI 7B - Science<br/>7, second semester</p> | <p>-Aligned with TEKS with changes specified<br/>-Contains appropriate breadth of coverage of TEKS with changes specified<br/>-Contains appropriate level of rigor for TEKS covered with changes specified</p> | <p>General comments provided.<br/>Specific comments provided for the following questions: 2, 3, 6, 9, 10, 12, 13, 14, 22, 23, 24, 25, 26-28, 29-38, 39, 46, 47, 48, 50, 51, 54.</p> <p>TEKS lacking adequate coverage (for SCI 7A and 7B combined): 8C, 9B, 10A, 10C, 11A, 11B, 11C, 12F, 13B.</p> <p>TEKS not assessed (for SCI 7A and 7B combined): 7B, 10B, 12E, 13A.</p> | <p>Referred to Curriculum for author review/revision.</p> |
| <p>MID SCI 8A - Science<br/>8, first semester</p>  | <p>-Aligned with TEKS with changes specified<br/>-Contains appropriate breadth of coverage of TEKS with changes specified<br/>-Contains appropriate level of rigor for TEKS covered with changes specified</p> | <p>General comments provided.<br/>Specific comments provided for the following questions: 1, 2, 3, 5, 7, 8, 11, 14, 20-28, 29, 30, 31, 32, 34, 37.</p> <p>TEKS lacking adequate coverage (for SCI 8A and 8B combined): 5B, 5E, 6C, 9C.</p> <p>TEKS not assessed (for SCI 8A and 8B combined): 8D, 10B, 11B.</p>  | <p>Referred to Curriculum for author review/revision.</p> |

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| <p>MID SCI 8B - Science 8, second semester</p>     | <p>-Aligned with TEKS with changes specified<br/>         -Contains appropriate breadth of coverage of TEKS with changes specified<br/>         -Contains appropriate level of rigor for TEKS covered with changes specified</p> | <p>General comments provided. Specific comments provided for the following questions: 4, 5, 7, 8, 13, 14, 16, 19, 28-37, 38, 47, 52, 53, 54, 55, 56.</p> <p>TEKS lacking adequate coverage (for SCI 8A and 8B combined): 5B, 5E, 6C, 9C.</p> <p>TEKS not assessed (for SCI 8A and 8B combined): 8D, 10B, 11B.</p> | <p>Referred to Curriculum for author review/revision.</p> |
| <p>HIGH ASTR 1A - Astronomy 1, first semester</p>  | <p>-Aligned with TEKS with changes specified<br/>         -Contains appropriate breadth of coverage of TEKS with changes specified<br/>         -Contains appropriate level of rigor for TEKS covered with changes specified</p> | <p>General comments provided. Specific comments provided for the following questions: 23, 33, 39, 49.</p> <p>TEKS lacking adequate coverage (for ASTR 1A and 1B combined): 4A, 8B, 8C, 10D, 14A.</p>  | <p>Referred to Curriculum for author review/revision.</p> |
| <p>HIGH ASTR 1B - Astronomy 1, second semester</p> | <p>-Aligned with TEKS with changes specified<br/>         -Contains appropriate breadth of coverage of TEKS with changes specified<br/>         -Contains appropriate level of rigor for TEKS covered with changes specified</p> | <p>General comments provided. Specific comments provided for the following questions: 10, 11, 15, 28.</p> <p>TEKS lacking adequate coverage (for ASTR 1A and 1B combined): 4A, 8B, 8C, 10D, 14A.</p>  | <p>Referred to Curriculum for author review/revision.</p> |
| <p>HIGH BIO 1A – Biology, first semester</p>       | <p>-Aligned with TEKS<br/>         -Contains appropriate breadth of coverage of TEKS<br/>         -Contains appropriate level of rigor for TEKS covered with changes specified</p>   | <p>General comments provided.</p> <p>TEKS lacking adequate coverage (for BIO 1A and 1B combined): 9A, 9B.</p>   | <p>Referred to Curriculum for author review/revision.</p> |

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| HIGH BIO 1B –<br>Biology, second<br>semester                            | -Aligned with TEKS<br>-Contains appropriate breadth of<br>coverage of TEKS<br>-Contains appropriate level of<br>rigor for TEKS covered with<br>changes specified | General comments provided.<br><br>TEKS lacking adequate coverage<br>(for BIO 1A and 1B combined):<br>9A, 9B.   | Referred to Curriculum for author<br>review/revision. |
| HIGH CHEM 1A –<br>Chemistry, first<br>semester                          | -Aligned with TEKS<br>-Contains appropriate breadth of<br>coverage of TEKS<br>-Contains appropriate level of<br>rigor for TEKS covered                           | General comments provided.<br>Specific comments provided for<br>the following questions: 1, 2, 3,<br>5, 6, 7, 8, 10, 45.   | Referred to Curriculum for author<br>review/revision. |
| HIGH CHEM 1B –<br>Chemistry, second<br>semester                         | -Aligned with TEKS<br>-Contains appropriate breadth of<br>coverage of TEKS<br>-Contains appropriate level of<br>rigor for TEKS covered                           | General comments provided.<br>Specific comments provided for<br>the following questions: 11, 12,<br>13, 14, 15, 16, 25, 26, 38, 40-43,<br>44, 46-49.                     | Referred to Curriculum for author<br>review/revision. |
| HIGH ENVIR 1A -<br>Environmental<br>Systems, first<br>semester          | -Aligned with TEKS<br>-Contains appropriate breadth of<br>coverage of TEKS<br>-Contains appropriate level of<br>rigor for TEKS covered                           | General comments provided.<br>Specific comments provided for<br>the following questions: 12, 15,<br>27, 32, 40, 44, 61, 65, 68.  | Referred to Curriculum for author<br>review/revision. |
| HIGH ENVIR 1B -<br>Environmental<br>Systems, second<br>semester         | -Aligned with TEKS<br>-Contains appropriate breadth of<br>coverage of TEKS<br>-Contains appropriate level of<br>rigor for TEKS covered                           | General comments provided.<br>Specific comments provided for<br>the following questions: 7, 23,<br>26, 47, 49, 60, 61, 66.   | Referred to Curriculum for author<br>review/revision. |
| HIGH IPC 1A -<br>Integrated Physics<br>and Chemistry, first<br>semester | -Aligned with TEKS<br>-Contains appropriate breadth of<br>coverage of TEKS<br>-Contains appropriate level of<br>rigor for TEKS covered                           | General comments provided.<br>Specific comments provided for<br>the following questions: 3, 8, 16,<br>18, 26, 31, 56, 60, 63, 65, 66, 68,<br>70, 71, 74, 75, 82, 83, 85. | Referred to Curriculum for author<br>review/revision. |

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| HIGH IPC 1B -<br>Integrated Physics<br>and Chemistry,<br>second semester           | -Aligned with TEKS<br>-Contains appropriate breadth of<br>coverage of TEKS<br>-Contains appropriate level of<br>rigor for TEKS covered                           | General comments provided.<br>Specific comments provided for<br>the following questions: 12, 33,<br>36, 46, 55, 57, 85.   | Referred to Curriculum for author<br>review/revision. |
| HIGH USHIS 1A -<br>United States History<br>Studies Since 1877,<br>first semester  | -Aligned with TEKS<br>-Contains appropriate breadth of<br>coverage of TEKS<br>-Contains appropriate level of<br>rigor for TEKS covered                           | General comments provided.<br>Specific comments provided for<br>the following questions: 7, 13,<br>29, 41-50.   | Referred to Curriculum for author<br>review/revision. |
| HIGH USHIS 1B -<br>United States History<br>Studies Since 1877,<br>second semester | -Aligned with TEKS<br>-Contains appropriate breadth of<br>coverage of TEKS<br>-Contains appropriate level of<br>rigor for TEKS covered                           | General comments provided.<br>Specific comments provided for<br>the following questions: 26, 38.  | Referred to Curriculum for author<br>review/revision. |
| HIGH WGEO 1A -<br>World Geography<br>Studies, first<br>semester                    | -Aligned with TEKS<br>-Contains appropriate breadth of<br>coverage of TEKS<br>-Contains appropriate level of<br>rigor for TEKS covered with<br>changes specified | General comments provided.<br>Specific comments provided for<br>the following questions: 2, 3, 4,<br>5, 10, 11, 14, 21-29, 31, 32, 34,<br>35, 37, 38, 42, 49, 59, 60. | Referred to Curriculum for author<br>review/revision. |
| HIGH WGEO 1B -<br>World Geography<br>Studies, second<br>semester                   | -Aligned with TEKS<br>-Contains appropriate breadth of<br>coverage of TEKS<br>-Contains appropriate level of<br>rigor for TEKS covered                           | General comments provided.<br>Specific comments provided for<br>the following question: 16.   | Referred to Curriculum for author<br>review/revision. |
| HIGH WHIST 1A -<br>World History<br>Studies, first<br>semester                     | -Aligned with TEKS<br>-Contains appropriate breadth of<br>coverage of TEKS<br>-Contains appropriate level of<br>rigor for TEKS covered                           | General comments provided.  | Referred to Curriculum for author<br>review/revision. |

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| HIGH WHIST 1B -<br>World History<br>Studies, second<br>semester | -Aligned with TEKS<br>-Contains appropriate breadth of<br>coverage of TEKS<br>-Contains appropriate level of<br>rigor for TEKS covered | General comments provided. | Referred to Curriculum for author<br>review/revision. |
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## Notes on TEKS Not Assessed (by course)

### KIND SCI K - Science, Kindergarten

TEKS not assessed: 3A, 6C, 7A, 10C.

Auditor response for all: "is not assessable on a standard CBE due to the nature of the item (not conventionally testable); exam still has appropriate breadth of TEKS coverage."

For reference:

3A: "The student knows that information and critical thinking are used in scientific problem solving. The student is expected to:" **"identify and explain a problem such as the impact of littering and propose a solution"**

6C: "The student knows that energy, force, and motion are related and are a part of their everyday life. The student is expected to:" **"observe and describe the location of an object in relation to another such as above, below, behind, in front of, and beside"**

7A: "The student knows that the natural world includes earth materials. The student is expected to:" **"observe, describe, and sort rocks by size, shape, color, and texture"**

10C: "The student knows that organisms resemble their parents and have structures and processes that help them survive within their environments. The student is expected to:" **"identify ways that young plants resemble the parent plant"**

### ELEM SCI 1 - Science, Grade 1

TEKS not assessed: 2D, 3A, 4B, 5C.

Auditor response for all: "is not assessable on a standard CBE due to the nature of the item (not conventionally testable); exam still has appropriate breadth of TEKS coverage."

For reference:

2D: "The student develops abilities to ask questions and seek answers in classroom and outdoor investigations. The student is expected to:" **"record and organize data using pictures, numbers, and words"**

3A: "The student knows that information and critical thinking are used in scientific problem solving. The student is expected to:" **"identify and explain a problem and propose a solution"**

4B: "The student uses age-appropriate tools and models to investigate the natural world. The student is expected to:" **"measure and compare organisms and objects using non-standard units"**

5C: "The student knows that objects have properties and patterns. The student is expected to:" **"classify objects by the materials from which they are made"**

## **ELEM SCI 2 - Science, Grade 2**

TEKS not assessed: 2D, 2F, 3A, 3C, 5C, 5D.

Auditor response for all: "is not assessable on a standard CBE due to the nature of the item (not conventionally testable); exam still has appropriate breadth of TEKS coverage."

For reference:

2D: "The student develops abilities necessary to do scientific inquiry in classroom and outdoor investigations. The student is expected to:" **"record and organize data using pictures, numbers, and words"**

2F: "The student develops abilities necessary to do scientific inquiry in classroom and outdoor investigations. The student is expected to:" **"compare results of investigations with what students and scientists know about the world"**

3A: "The student knows that information and critical thinking, scientific problem solving, and the contributions of scientists are used in making decisions. The student is expected to:" **"identify and explain a problem and propose a task and solution for the problem"**

3C: "The student knows that information and critical thinking, scientific problem solving, and the contributions of scientists are used in making decisions. The student is expected to:" **"identify what a scientist is and explore what different scientists do"**

5C: "The student knows that matter has physical properties and those properties determine how it is described, classified, changed, and used. The student is expected to:" **"demonstrate that things can be done to materials such as cutting, folding, sanding, and melting to change their physical properties"**

5D: "The student knows that matter has physical properties and those properties determine how it is described, classified, changed, and used. The student is expected to:" **"combine materials that when put together can do things that they cannot do by themselves such as building a tower or a bridge and justify the selection of those materials based on their physical properties"**

### **ELEM SCI 3 - Science, Grade 3**

TEKS not assessed: 5D, 6C, 7C.

Auditor response for all: "is not assessable on a standard CBE due to the nature of the item (not conventionally testable); exam still has appropriate breadth of TEKS coverage."

For reference:

5D: "The student knows that matter has measurable physical properties and those properties determine how matter is classified, changed, and used. The student is expected to:" **"explore and recognize that a mixture is created when two materials are combined such as gravel and sand or metal and plastic paper clips"**

6C: "The student knows that forces cause change and that energy exists in many forms. The student is expected to:" **"observe forces such as magnetism and gravity acting on objects"**

7C: "The student knows that Earth consists of natural resources and its surface is constantly changing. The student is expected to:" **"explore the characteristics of natural resources that make them useful in products and materials such as clothing and furniture and how resources may be conserved"**

### **MID Science 6A and 6B – Science 6**

TEKS lacking adequate coverage: 6A, 8B, 8E, 9C, 12A.

Auditor response for all: can be assessed using the suggestions provided.

### **MID Science 7A and 7B – Science 7**

TEKS lacking adequate coverage: 8C, 9B, 10A, 10C, 11A, 11B, 11C, 12F, 13B.

TEKS not assessed: 7B, 10B, 12E, 13A.

Auditor response for all: can be assessed using the suggestions provided.

### **MID Science 8A and 8B – Science 8**

TEKS lacking adequate coverage: 5B, 5E, 6C, 9C.

TEKS not assessed: 8D, 10B, 11B.

Auditor response for 5B, 5E, 6C, 9C, 10B, & 11B: can be assessed using the suggestions provided.

Auditor response for 8D: "is not assessable on a standard CBE due to the nature of the item (not conventionally testable); exam still has appropriate breadth of TEKS coverage."

For reference:

8D: "The student knows characteristics of the universe. The student is expected to:"  
"research how scientific data are used as evidence to develop scientific theories to describe the origin of the universe"

**HIGH ASTR 1A and 1B – Astronomy**

TEKS lacking adequate coverage: 4A, 8B, 8C, 10D, 14A.

Auditor response for all: can be assessed using the suggestions provided.

**HIGH BIO 1A and 1B – Biology**

TEKS lacking adequate coverage: 9A, 9B.

Auditor response for all: can be assessed using the suggestions provided.