| Subject   | §126. Technology Application   | ons  |                                  |                          |  |  |  |
|---|--|--|----------------------------------|--------------------------|--|--|--|
| Course Title  | §126.16. Technology Applica  | ations, Grade 8, Beginning with  | School Year 2012-2013            |                          |  |  |  |
| TEKS (Knowledge and<br>Skills)  | Student Expectation  | Breakout   | Element                          | Subelement               |  |  |  |
| (a) General Requirements. D   | Districts have the flexibility of off  | ering technology applications in a   | variety of settings. Districts a | re encouraged to offer   |  |  |  |
| technology applications in all o  | echnology applications in all content areas. This content may also be offered in a specific class while being integrated in all content areas. |  |                                  |                          |  |  |  |
| (b) Introduction.   |  |  |                                  |                          |  |  |  |
| performance indicators develo   | pped by the International Societ   | ased on the National Educational<br>y for Technology in Education (IS<br>ng, problem solving, and decision | TE): creativity and innovation;  | communication and        |  |  |  |
| technology systems, appropria   | ate digital tools, and personal le   | ake informed decisions by unders<br>arning networks. As competent re<br>nile developing career and college | searchers and responsible di     |                          |  |  |  |
| (3) Statements that contain th<br>as possible illustrative exampl   | -  | ontent that must be mastered, whil   | e those containing the phrase    | e "such as" are intended |  |  |  |
| (c) Knowledge and Skills.   |  |  |                                  |                          |  |  |  |
| (1) Creativity and innovation.  | (A) identify, create, and use  | (i) identify files in various  |                                  |                          |  |  |  |
| The student uses creative<br>thinking and innovative<br>processes to construct<br>knowledge, generate new<br>ideas, and create products.<br>The student is expected to:                                   | files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files   | formats including text files   |                                  |                          |  |  |  |
| (1) Creativity and innovation.<br>The student uses creative<br>thinking and innovative<br>processes to construct<br>knowledge, generate new<br>ideas, and create products.<br>The student is expected to: | (A) identify, create, and use<br>files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files          | (ii) identify files in various<br>formats including raster<br>graphics files                               |                                  |                          |  |  |  |

| TEKS (Knowledge and Skills)   | Student Expectation   | Breakout  | Element | Subelement |
|---|---|---|---------|------------|
| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative<br/>thinking and innovative<br/>processes to construct<br/>knowledge, generate new<br/>ideas, and create products.</li> <li>The student is expected to:</li> </ul> | (A) identify, create, and use<br>files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files | (iii) identify files in various<br>formats including vector<br>graphics files |         |            |
| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative<br/>thinking and innovative<br/>processes to construct<br/>knowledge, generate new<br/>ideas, and create products.</li> <li>The student is expected to:</li> </ul> | (A) identify, create, and use<br>files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files | (iv) identify files in various<br>formats including video files               |         |            |
| (1) Creativity and innovation.<br>The student uses creative<br>thinking and innovative<br>processes to construct<br>knowledge, generate new<br>ideas, and create products.<br>The student is expected to:                                     | (A) identify, create, and use<br>files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files | (v) identify files in various<br>formats including audio files                |         |            |
| (1) Creativity and innovation.<br>The student uses creative<br>thinking and innovative<br>processes to construct<br>knowledge, generate new<br>ideas, and create products.<br>The student is expected to:                                     | (A) identify, create, and use<br>files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files | (vi) create files in various<br>formats including text files                  |         |            |

| TEKS (Knowledge and<br>Skills)  | Student Expectation   | Breakout   | Element | Subelement |
|---|---|--|---------|------------|
| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative<br/>thinking and innovative<br/>processes to construct<br/>knowledge, generate new<br/>ideas, and create products.</li> <li>The student is expected to:</li> </ul> | (A) identify, create, and use<br>files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files | (vii) create files in various<br>formats including raster<br>graphics files  |         |            |
| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative<br/>thinking and innovative<br/>processes to construct<br/>knowledge, generate new<br/>ideas, and create products.</li> <li>The student is expected to:</li> </ul> | (A) identify, create, and use<br>files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files | (viii) create files in various<br>formats including vector<br>graphics files |         |            |
| (1) Creativity and innovation.<br>The student uses creative<br>thinking and innovative<br>processes to construct<br>knowledge, generate new<br>ideas, and create products.<br>The student is expected to:                                     | (A) identify, create, and use<br>files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files | (ix) create files in various<br>formats including video files                |         |            |
| (1) Creativity and innovation.<br>The student uses creative<br>thinking and innovative<br>processes to construct<br>knowledge, generate new<br>ideas, and create products.<br>The student is expected to:                                     | (A) identify, create, and use<br>files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files | (x) create files in various<br>formats including audio files                 |         |            |

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|---|---|---|---------|------------|
| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative<br/>thinking and innovative<br/>processes to construct<br/>knowledge, generate new<br/>ideas, and create products.</li> <li>The student is expected to:</li> </ul> | (A) identify, create, and use<br>files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files | (xi) use files in various formats including text files              |         |            |
| (1) Creativity and innovation.<br>The student uses creative<br>thinking and innovative<br>processes to construct<br>knowledge, generate new<br>ideas, and create products.<br>The student is expected to:                                     | (A) identify, create, and use<br>files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files | (xii) use files in various formats including raster graphics files  |         |            |
| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products.</li> <li>The student is expected to:</li> </ul>                 | (A) identify, create, and use<br>files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files | (xiii) use files in various formats including vector graphics files |         |            |
| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative<br/>thinking and innovative<br/>processes to construct<br/>knowledge, generate new<br/>ideas, and create products.</li> <li>The student is expected to:</li> </ul> | (A) identify, create, and use<br>files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files | (xiv) use files in various formats including video files            |         |            |

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| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative<br/>thinking and innovative<br/>processes to construct<br/>knowledge, generate new<br/>ideas, and create products.</li> <li>The student is expected to:</li> </ul> | (A) identify, create, and use<br>files in various formats<br>including text, raster and<br>vector graphics, video, and<br>audio files | (xv) use files in various formats<br>including audio files                    |         |            |
| (1) Creativity and innovation.<br>The student uses creative<br>thinking and innovative<br>processes to construct<br>knowledge, generate new<br>ideas, and create products.<br>The student is expected to:                                     | (B) create, present, and<br>publish original works as a<br>means of personal or group<br>expression                                   | (i) create original works as a<br>means of personal or group<br>expression    |         |            |
| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products.</li> <li>The student is expected to:</li> </ul>                 | (B) create, present, and<br>publish original works as a<br>means of personal or group<br>expression                                   | (ii) present original works as a<br>means of personal or group<br>expression  |         |            |
| (1) Creativity and innovation.<br>The student uses creative<br>thinking and innovative<br>processes to construct<br>knowledge, generate new<br>ideas, and create products.<br>The student is expected to:                                     | (B) create, present, and<br>publish original works as a<br>means of personal or group<br>expression                                   | (iii) publish original works as a<br>means of personal or group<br>expression |         |            |

| TEKS (Knowledge and Skills)   | Student Expectation   | Breakout   | Element | Subelement |
|---|---|--|---------|------------|
| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative<br/>thinking and innovative<br/>processes to construct<br/>knowledge, generate new<br/>ideas, and create products.</li> <li>The student is expected to:</li> </ul> | (C) explore complex systems<br>or issues using models,<br>simulations, and new<br>technologies to develop<br>hypotheses, modify input, and<br>analyze results | (i) explore complex systems or<br>issues using models to develop<br>hypotheses       |         |            |
| (1) Creativity and innovation.<br>The student uses creative<br>thinking and innovative<br>processes to construct<br>knowledge, generate new<br>ideas, and create products.<br>The student is expected to:                                     | (C) explore complex systems<br>or issues using models,<br>simulations, and new<br>technologies to develop<br>hypotheses, modify input, and<br>analyze results | (ii) explore complex systems or<br>issues using models to modify<br>input            |         |            |
| (1) Creativity and innovation.<br>The student uses creative<br>thinking and innovative<br>processes to construct<br>knowledge, generate new<br>ideas, and create products.<br>The student is expected to:                                     | (C) explore complex systems<br>or issues using models,<br>simulations, and new<br>technologies to develop<br>hypotheses, modify input, and<br>analyze results | (iii) explore complex systems or<br>issues using models to analyze<br>results        |         |            |
| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative<br/>thinking and innovative<br/>processes to construct<br/>knowledge, generate new<br/>ideas, and create products.</li> <li>The student is expected to:</li> </ul> | (C) explore complex systems<br>or issues using models,<br>simulations, and new<br>technologies to develop<br>hypotheses, modify input, and<br>analyze results | (iv) explore complex systems or<br>issues using simulations to<br>develop hypotheses |         |            |

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| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative<br/>thinking and innovative<br/>processes to construct<br/>knowledge, generate new<br/>ideas, and create products.</li> <li>The student is expected to:</li> </ul> | (C) explore complex systems<br>or issues using models,<br>simulations, and new<br>technologies to develop<br>hypotheses, modify input, and<br>analyze results | <ul> <li>(v) explore complex systems or<br/>issues using simulations to<br/>modify input</li> </ul> |         |            |
| (1) Creativity and innovation.<br>The student uses creative<br>thinking and innovative<br>processes to construct<br>knowledge, generate new<br>ideas, and create products.<br>The student is expected to:                                     | (C) explore complex systems<br>or issues using models,<br>simulations, and new<br>technologies to develop<br>hypotheses, modify input, and<br>analyze results | (vi) explore complex systems or<br>issues using simulations to<br>analyze results                   |         |            |
| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products.</li> <li>The student is expected to:</li> </ul>                 | (C) explore complex systems<br>or issues using models,<br>simulations, and new<br>technologies to develop<br>hypotheses, modify input, and<br>analyze results | (vii) explore complex systems<br>or issues using new<br>technologies to develop<br>hypotheses       |         |            |
| (1) Creativity and innovation.<br>The student uses creative<br>thinking and innovative<br>processes to construct<br>knowledge, generate new<br>ideas, and create products.<br>The student is expected to:                                     | (C) explore complex systems<br>or issues using models,<br>simulations, and new<br>technologies to develop<br>hypotheses, modify input, and<br>analyze results | (viii) explore complex systems<br>or issues using new<br>technologies to modify input               |         |            |

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| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative<br/>thinking and innovative<br/>processes to construct<br/>knowledge, generate new<br/>ideas, and create products.</li> <li>The student is expected to:</li> </ul> | (C) explore complex systems<br>or issues using models,<br>simulations, and new<br>technologies to develop<br>hypotheses, modify input, and<br>analyze results   | (ix) explore complex systems or<br>issues using new technologies<br>to analyze results                           |         |            |
| <ul> <li>(1) Creativity and innovation.</li> <li>The student uses creative<br/>thinking and innovative<br/>processes to construct<br/>knowledge, generate new<br/>ideas, and create products.</li> <li>The student is expected to:</li> </ul> | (D) analyze trends and forecast possibilities   | (i) analyze trends   |         |            |
| (1) Creativity and innovation.<br>The student uses creative<br>thinking and innovative<br>processes to construct<br>knowledge, generate new<br>ideas, and create products.<br>The student is expected to:                                     | (D) analyze trends and forecast possibilities   | (ii) forecast possibilities  |         |            |
| (2) Communication and<br>collaboration. The student<br>collaborates and<br>communicates both locally<br>and globally to reinforce and<br>promote learning. The<br>student is expected to:   | (A) create and manage<br>personal learning networks to<br>collaborate and publish with<br>peers, experts, or others using<br>digital tools such as blogs,<br>wikis, audio/video<br>communication, or other<br>emerging technologies | (i) create personal learning<br>networks to collaborate with<br>peers, experts, or others using<br>digital tools |         |            |

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| (2) Communication and<br>collaboration. The student<br>collaborates and<br>communicates both locally<br>and globally to reinforce and<br>promote learning. The<br>student is expected to: | (A) create and manage<br>personal learning networks to<br>collaborate and publish with<br>peers, experts, or others using<br>digital tools such as blogs,<br>wikis, audio/video<br>communication, or other<br>emerging technologies | (ii) create personal learning<br>networks to publish with peers,<br>experts, or others using digital<br>tools      |         |            |
| (2) Communication and<br>collaboration. The student<br>collaborates and<br>communicates both locally<br>and globally to reinforce and<br>promote learning. The<br>student is expected to: | (A) create and manage<br>personal learning networks to<br>collaborate and publish with<br>peers, experts, or others using<br>digital tools such as blogs,<br>wikis, audio/video<br>communication, or other<br>emerging technologies | (iii) manage personal learning<br>networks to collaborate with<br>peers, experts, or others using<br>digital tools |         |            |
| (2) Communication and<br>collaboration. The student<br>collaborates and<br>communicates both locally<br>and globally to reinforce and<br>promote learning. The<br>student is expected to: | (A) create and manage<br>personal learning networks to<br>collaborate and publish with<br>peers, experts, or others using<br>digital tools such as blogs,<br>wikis, audio/video<br>communication, or other<br>emerging technologies | (iv) manage personal learning<br>networks to publish with peers,<br>experts, or others using digital<br>tools      |         |            |
| (2) Communication and<br>collaboration. The student<br>collaborates and<br>communicates both locally<br>and globally to reinforce and<br>promote learning. The<br>student is expected to: | (B) communicate effectively<br>with multiple audiences using<br>a variety of media and formats  | (i) communicate effectively with<br>multiple audiences using a<br>variety of media                                 |         |            |

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| <ul> <li>(2) Communication and<br/>collaboration. The student<br/>collaborates and<br/>communicates both locally<br/>and globally to reinforce and<br/>promote learning. The<br/>student is expected to:</li> </ul> | (B) communicate effectively<br>with multiple audiences using<br>a variety of media and formats             | (ii) communicate effectively with<br>multiple audiences using a<br>variety of formats |         |            |
| (2) Communication and<br>collaboration. The student<br>collaborates and<br>communicates both locally<br>and globally to reinforce and<br>promote learning. The<br>student is expected to:                           | (C) create and publish<br>products using technical<br>writing strategies                                   | (i) create products using<br>technical writing strategies                             |         |            |
| <ul> <li>(2) Communication and<br/>collaboration. The student<br/>collaborates and<br/>communicates both locally<br/>and globally to reinforce and<br/>promote learning. The<br/>student is expected to:</li> </ul> | (C) create and publish<br>products using technical<br>writing strategies                                   | (ii) publish products using<br>technical writing strategies                           |         |            |
| (3) Research and information<br>fluency. The student<br>acquires, analyzes, and<br>manages content from digital<br>resources. The student is<br>expected to:  | (A) create a research plan to guide inquiry  |   |         |            |
| (3) Research and information<br>fluency. The student<br>acquires, analyzes, and<br>manages content from digital<br>resources. The student is<br>expected to:  | (B) plan, use, and evaluate<br>various search strategies,<br>including keyword(s) and<br>Boolean operators | (i) plan various search<br>strategies including keyword(s)                            |         |            |

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| <ul> <li>(3) Research and information<br/>fluency. The student<br/>acquires, analyzes, and<br/>manages content from digital<br/>resources. The student is<br/>expected to:</li> </ul> | (B) plan, use, and evaluate<br>various search strategies,<br>including keyword(s) and<br>Boolean operators | (ii) plan various search<br>strategies including Boolean<br>operators     |         |            |
| <ul> <li>(3) Research and information<br/>fluency. The student<br/>acquires, analyzes, and<br/>manages content from digital<br/>resources. The student is<br/>expected to:</li> </ul> | (B) plan, use, and evaluate<br>various search strategies,<br>including keyword(s) and<br>Boolean operators | (iii) use various search<br>strategies including keyword(s)               |         |            |
| <ul> <li>(3) Research and information<br/>fluency. The student<br/>acquires, analyzes, and<br/>manages content from digital<br/>resources. The student is<br/>expected to:</li> </ul> | (B) plan, use, and evaluate<br>various search strategies,<br>including keyword(s) and<br>Boolean operators | (iv) use various search<br>strategies including Boolean<br>operators      |         |            |
| <ul> <li>(3) Research and information<br/>fluency. The student<br/>acquires, analyzes, and<br/>manages content from digital<br/>resources. The student is<br/>expected to:</li> </ul> | (B) plan, use, and evaluate<br>various search strategies,<br>including keyword(s) and<br>Boolean operators | (v) evaluate various search<br>strategies including keyword(s)            |         |            |
| (3) Research and information<br>fluency. The student<br>acquires, analyzes, and<br>manages content from digital<br>resources. The student is<br>expected to:                          | (B) plan, use, and evaluate<br>various search strategies,<br>including keyword(s) and<br>Boolean operators | (vi) evaluate various search<br>strategies including Boolean<br>operators |         |            |

| TEKS (Knowledge and<br>Skills)  | Student Expectation   | Breakout  | Element | Subelement |
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| <ul> <li>(3) Research and information<br/>fluency. The student<br/>acquires, analyzes, and<br/>manages content from digital<br/>resources. The student is<br/>expected to:</li> </ul> | (C) select and evaluate<br>various types of digital<br>resources for accuracy and<br>validity | (i) select various types of digital resources for accuracy        |         |            |
| (3) Research and information<br>fluency. The student<br>acquires, analyzes, and<br>manages content from digital<br>resources. The student is<br>expected to:                          | (C) select and evaluate<br>various types of digital<br>resources for accuracy and<br>validity | (ii) select various types of digital resources for validity       |         |            |
| <ul> <li>(3) Research and information<br/>fluency. The student<br/>acquires, analyzes, and<br/>manages content from digital<br/>resources. The student is<br/>expected to:</li> </ul> | (C) select and evaluate<br>various types of digital<br>resources for accuracy and<br>validity | (iii) evaluate various types of<br>digital resources for accuracy |         |            |
| <ul> <li>(3) Research and information<br/>fluency. The student<br/>acquires, analyzes, and<br/>manages content from digital<br/>resources. The student is<br/>expected to:</li> </ul> | (C) select and evaluate<br>various types of digital<br>resources for accuracy and<br>validity | (iv) evaluate various types of<br>digital resources for validity  |         |            |
| (3) Research and information<br>fluency. The student<br>acquires, analyzes, and<br>manages content from digital<br>resources. The student is<br>expected to:                          | (D) process data and communicate results  | (i) process data  |         |            |

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| (3) Research and information<br>fluency. The student<br>acquires, analyzes, and<br>manages content from digital<br>resources. The student is<br>expected to:   | (D) process data and communicate results  | (ii) communicate results                              |         |            |
| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: | (A) identify and define relevant<br>problems and significant<br>questions for investigation | (i) identify relevant problems for investigation      |         |            |
| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: | (A) identify and define relevant<br>problems and significant<br>questions for investigation | (ii) identify significant questions for investigation |         |            |
| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: | (A) identify and define relevant<br>problems and significant<br>questions for investigation | (iii) define relevant problems for investigation      |         |            |

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| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: | (A) identify and define relevant<br>problems and significant<br>questions for investigation | (iv) define significant questions<br>for investigation   |         |            |
| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: | to develop a solution, design a   | (i) plan activities to develop a<br>solution, design a computer<br>program, or complete a project    |         |            |
| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: | to develop a solution, design a   | (ii) manage activities to develop<br>a solution, design a computer<br>program, or complete a project |         |            |
| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: | (C) collect and analyze data to<br>identify solutions and make<br>informed decisions        | (i) collect data to identify solutions   |         |            |

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|--|--|--|---------|------------|
| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: |  | (ii) collect data to make<br>informed decisions                |         |            |
| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: | (C) collect and analyze data to<br>identify solutions and make<br>informed decisions | (iii) analyze data to identify solutions                       |         |            |
| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: |  | (iv) analyze data to make<br>informed decisions                |         |            |
| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: |  | (i) use multiple processes to<br>explore alternative solutions |         |            |

| TEKS (Knowledge and<br>Skills)   | Student Expectation  | Breakout  | Element | Subelement |
|--|--|---|---------|------------|
| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: |  | (ii) use diverse perspectives to<br>explore alternative solutions |         |            |
| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: | (E) make informed decisions<br>and support reasoning                                   | (i) make informed decisions                                       |         |            |
| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: | (E) make informed decisions<br>and support reasoning                                   | (ii) support reasoning  |         |            |
| (4) Critical thinking, problem<br>solving, and decision making.<br>The student makes informed<br>decisions by applying critical-<br>thinking and problem-solving<br>skills. The student is<br>expected to: | (F) transfer current knowledge<br>to the learning of newly<br>encountered technologies |   |         |            |

| TEKS (Knowledge and<br>Skills)  | Student Expectation   | Breakout   | Element | Subelement |
|---|---|--|---------|------------|
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (i) understand copyright<br>principles including current laws            |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (ii) explain copyright principles<br>including current laws              |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (iii) practice copyright principles<br>including current laws            |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (iv) understand copyright<br>principles including fair use<br>guidelines |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (v) explain copyright principles<br>including fair use guidelines        |         |            |

| TEKS (Knowledge and<br>Skills)  | Student Expectation   | Breakout   | Element | Subelement |
|---|---|--|---------|------------|
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (vi) practice copyright principles<br>including fair use guidelines    |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (vii) understand copyright<br>principles including creative<br>commons |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (viii) explain copyright principles<br>including creative commons      |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (ix) practice copyright principles including creative commons          |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (x) understand copyright principles including open source              |         |            |

| TEKS (Knowledge and<br>Skills)  | Student Expectation   | Breakout   | Element | Subelement |
|---|---|--|---------|------------|
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (xi) explain copyright principles<br>including open source           |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (xii) practice copyright principles<br>including open source         |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (xiii) understand copyright<br>principles including public<br>domain |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (xiv) explain copyright principles<br>including public domain        |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (A) understand, explain, and<br>practice copyright principles<br>including current laws, fair use<br>guidelines, creative commons,<br>open source, and public<br>domain | (xv) practice copyright principles including public domain           |         |            |

| TEKS (Knowledge and<br>Skills)  | Student Expectation            | Breakout  | Element | Subelement |
|---|--------------------------------|---|---------|------------|
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | acquisition of information and | (i) practice ethical acquisition of information for citing sources  |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | •                              | (ii) practice standard methods<br>for citing sources                |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | acquisition and standard       | (iii) explain ethical acquisition of information for citing sources |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | -                              | (iv) explain standard methods<br>for citing sources                 |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | and appropriate online         | (i) practice safe online behavior                                   |         |            |

| TEKS (Knowledge and<br>Skills)  | Student Expectation   | Breakout                                       | Element | Subelement |
|---|---|--|---------|------------|
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (C) practice and explain safe<br>and appropriate online<br>behavior, personal security<br>guidelines, digital identity,<br>digital etiquette, and<br>acceptable use of technology | (ii) practice appropriate online<br>behavior   |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (C) practice and explain safe<br>and appropriate online<br>behavior, personal security<br>guidelines, digital identity,<br>digital etiquette, and<br>acceptable use of technology | (iii) practice personal security<br>guidelines |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (C) practice and explain safe<br>and appropriate online<br>behavior, personal security<br>guidelines, digital identity,<br>digital etiquette, and<br>acceptable use of technology | (iv) practice digital identity                 |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (C) practice and explain safe<br>and appropriate online<br>behavior, personal security<br>guidelines, digital identity,<br>digital etiquette, and<br>acceptable use of technology | (v) practice digital etiquette                 |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (C) practice and explain safe<br>and appropriate online<br>behavior, personal security<br>guidelines, digital identity,<br>digital etiquette, and<br>acceptable use of technology | (vi) practice acceptable use of technology     |         |            |

| TEKS (Knowledge and<br>Skills)  | Student Expectation   | Breakout                                      | Element | Subelement |
|---|---|---|---------|------------|
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (C) practice and explain safe<br>and appropriate online<br>behavior, personal security<br>guidelines, digital identity,<br>digital etiquette, and<br>acceptable use of technology | (vii) explain safe online behavior            |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (C) practice and explain safe<br>and appropriate online<br>behavior, personal security<br>guidelines, digital identity,<br>digital etiquette, and<br>acceptable use of technology | (viii) explain appropriate online<br>behavior |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (C) practice and explain safe<br>and appropriate online<br>behavior, personal security<br>guidelines, digital identity,<br>digital etiquette, and<br>acceptable use of technology | (ix) explain personal security<br>guidelines  |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (C) practice and explain safe<br>and appropriate online<br>behavior, personal security<br>guidelines, digital identity,<br>digital etiquette, and<br>acceptable use of technology | (x) explain digital identity                  |         |            |

| TEKS (Knowledge and<br>Skills)  | Student Expectation   | Breakout   | Element | Subelement |
|---|---|--|---------|------------|
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (C) practice and explain safe<br>and appropriate online<br>behavior, personal security<br>guidelines, digital identity,<br>digital etiquette, and<br>acceptable use of technology   | (xi) explain digital etiquette   |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (C) practice and explain safe<br>and appropriate online<br>behavior, personal security<br>guidelines, digital identity,<br>digital etiquette, and<br>acceptable use of technology   | (xii) explain acceptable use of technology   |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (D) understand and explain<br>the negative impact of<br>inappropriate technology use,<br>including online bullying and<br>harassment, hacking,<br>intentional virus setting,<br>invasion of privacy, and piracy<br>such as software, music,<br>video, and other media | (i) understand the negative<br>impact of inappropriate<br>technology use, including online<br>bullying |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (D) understand and explain<br>the negative impact of<br>inappropriate technology use,<br>including online bullying and<br>harassment, hacking,<br>intentional virus setting,<br>invasion of privacy, and piracy<br>such as software, music,<br>video, and other media | (ii) explain the negative impact<br>of inappropriate technology use,<br>including online bullying      |         |            |

| TEKS (Knowledge and<br>Skills)  | Student Expectation   | Breakout   | Element | Subelement |
|---|---|--|---------|------------|
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (D) understand and explain<br>the negative impact of<br>inappropriate technology use,<br>including online bullying and<br>harassment, hacking,<br>intentional virus setting,<br>invasion of privacy, and piracy<br>such as software, music,<br>video, and other media | (iii) understand the negative<br>impact of inappropriate<br>technology use, including online<br>harassment |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (D) understand and explain<br>the negative impact of<br>inappropriate technology use,<br>including online bullying and<br>harassment, hacking,<br>intentional virus setting,<br>invasion of privacy, and piracy<br>such as software, music,<br>video, and other media | (iv) explain the negative impact<br>of inappropriate technology use,<br>including online harassment        |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (D) understand and explain<br>the negative impact of<br>inappropriate technology use,<br>including online bullying and<br>harassment, hacking,<br>intentional virus setting,<br>invasion of privacy, and piracy<br>such as software, music,<br>video, and other media | (v) understand the negative<br>impact of inappropriate<br>technology use, including<br>hacking             |         |            |

| TEKS (Knowledge and<br>Skills)  | Student Expectation   | Breakout   | Element | Subelement |
|---|---|--|---------|------------|
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (D) understand and explain<br>the negative impact of<br>inappropriate technology use,<br>including online bullying and<br>harassment, hacking,<br>intentional virus setting,<br>invasion of privacy, and piracy<br>such as software, music,<br>video, and other media | (vi) explain the negative impact<br>of inappropriate technology use,<br>including hacking                          |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (D) understand and explain<br>the negative impact of<br>inappropriate technology use,<br>including online bullying and<br>harassment, hacking,<br>intentional virus setting,<br>invasion of privacy, and piracy<br>such as software, music,<br>video, and other media | (vii) understand the negative<br>impact of inappropriate<br>technology use, including<br>intentional virus setting |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (D) understand and explain<br>the negative impact of<br>inappropriate technology use,<br>including online bullying and<br>harassment, hacking,<br>intentional virus setting,<br>invasion of privacy, and piracy<br>such as software, music,<br>video, and other media | (viii) explain the negative impact<br>of inappropriate technology use,<br>including intentional virus<br>setting   |         |            |

| TEKS (Knowledge and<br>Skills)  | Student Expectation   | Breakout  | Element | Subelement |
|---|---|---|---------|------------|
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (D) understand and explain<br>the negative impact of<br>inappropriate technology use,<br>including online bullying and<br>harassment, hacking,<br>intentional virus setting,<br>invasion of privacy, and piracy<br>such as software, music,<br>video, and other media | (ix) understand the negative<br>impact of inappropriate<br>technology use, including<br>invasion of privacy |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (D) understand and explain<br>the negative impact of<br>inappropriate technology use,<br>including online bullying and<br>harassment, hacking,<br>intentional virus setting,<br>invasion of privacy, and piracy<br>such as software, music,<br>video, and other media | (x) explain the negative impact<br>of inappropriate technology use,<br>including invasion of privacy        |         |            |
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to: | (D) understand and explain<br>the negative impact of<br>inappropriate technology use,<br>including online bullying and<br>harassment, hacking,<br>intentional virus setting,<br>invasion of privacy, and piracy<br>such as software, music,<br>video, and other media | (xi) understand the negative<br>impact of inappropriate<br>technology use, including piracy                 |         |            |

| TEKS (Knowledge and<br>Skills)   | Student Expectation   | Breakout  | Element | Subelement |
|--|---|---|---------|------------|
| (5) Digital citizenship. The<br>student practices safe,<br>responsible, legal, and ethical<br>behavior while using<br>technology tools and<br>resources. The student is<br>expected to:  | (D) understand and explain<br>the negative impact of<br>inappropriate technology use,<br>including online bullying and<br>harassment, hacking,<br>intentional virus setting,<br>invasion of privacy, and piracy<br>such as software, music,<br>video, and other media | (xii) explain the negative impact<br>of inappropriate technology use,<br>including piracy |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (A) define and use current<br>technology terminology<br>appropriately   | (i) define current technology<br>terminology appropriately                                |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (A) define and use current<br>technology terminology<br>appropriately   | (ii) use current technology<br>terminology appropriately                                  |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (B) evaluate and select<br>technology tools based on<br>licensing, application, and<br>support  | (i) evaluate technology tools<br>based on licensing                                       |         |            |

| TEKS (Knowledge and<br>Skills)   | Student Expectation  | Breakout   | Element | Subelement |
|--|--|--|---------|------------|
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (B) evaluate and select<br>technology tools based on<br>licensing, application, and<br>support | (ii) evaluate technology tools<br>based on application |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (B) evaluate and select<br>technology tools based on<br>licensing, application, and<br>support | (iii) evaluate technology tools<br>based on support    |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (B) evaluate and select<br>technology tools based on<br>licensing, application, and<br>support | (iv) select technology tools based on licensing        |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (B) evaluate and select<br>technology tools based on<br>licensing, application, and<br>support | (v) select technology tools<br>based on application    |         |            |

| TEKS (Knowledge and<br>Skills)   | Student Expectation  | Breakout   | Element | Subelement |
|--|--|--|---------|------------|
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (B) evaluate and select<br>technology tools based on<br>licensing, application, and<br>support | (vi) select technology tools<br>based on support |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (C) identify, understand, and use operating systems  | (i) identify operating systems                   |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (C) identify, understand, and use operating systems  | (ii) understand operating<br>systems             |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (C) identify, understand, and use operating systems  | (iii) use operating systems                      |         |            |

| TEKS (Knowledge and<br>Skills)   | Student Expectation   | Breakout   | Element | Subelement |
|--|---|--|---------|------------|
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (D) understand and use<br>software applications including<br>selecting and using software<br>for a defined task | (i) understand software<br>applications including selecting<br>software for a defined task |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (D) understand and use<br>software applications including<br>selecting and using software<br>for a defined task | (ii) understand software<br>applications including using<br>software for a defined task    |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (D) understand and use<br>software applications including<br>selecting and using software<br>for a defined task | (iii) use software applications<br>including selecting software for<br>a defined task      |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (D) understand and use<br>software applications including<br>selecting and using software<br>for a defined task | (iv) use software applications<br>including using software for a<br>defined task           |         |            |

| TEKS (Knowledge and Skills)  | Student Expectation   | Breakout   | Element | Subelement |
|--|---|--|---------|------------|
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (E) identify, understand, and use hardware systems  | (i) identify hardware systems  |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (E) identify, understand, and use hardware systems  | (ii) understand hardware<br>systems                                      |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (E) identify, understand, and use hardware systems  | (iii) use hardware systems   |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (F) apply troubleshooting<br>techniques, including<br>restarting systems, checking<br>power issues, resolving<br>software compatibility,<br>verifying network connectivity,<br>connecting to remote<br>resources, and modifying<br>display properties | (i) apply troubleshooting<br>techniques, including restarting<br>systems |         |            |

| TEKS (Knowledge and Skills)  | Student Expectation   | Breakout   | Element | Subelement |
|--|---|--|---------|------------|
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (F) apply troubleshooting<br>techniques, including<br>restarting systems, checking<br>power issues, resolving<br>software compatibility,<br>verifying network connectivity,<br>connecting to remote<br>resources, and modifying<br>display properties | (ii) apply troubleshooting<br>techniques, including checking<br>power issues             |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (F) apply troubleshooting<br>techniques, including<br>restarting systems, checking<br>power issues, resolving<br>software compatibility,<br>verifying network connectivity,<br>connecting to remote<br>resources, and modifying<br>display properties | (iii) apply troubleshooting<br>techniques, including resolving<br>software compatibility |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (F) apply troubleshooting<br>techniques, including<br>restarting systems, checking<br>power issues, resolving<br>software compatibility,<br>verifying network connectivity,<br>connecting to remote<br>resources, and modifying<br>display properties | (iv) apply troubleshooting<br>techniques, including verifying<br>network connectivity    |         |            |

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| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (F) apply troubleshooting<br>techniques, including<br>restarting systems, checking<br>power issues, resolving<br>software compatibility,<br>verifying network connectivity,<br>connecting to remote<br>resources, and modifying<br>display properties | (v) apply troubleshooting<br>techniques, including<br>connecting to remote resources |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (F) apply troubleshooting<br>techniques, including<br>restarting systems, checking<br>power issues, resolving<br>software compatibility,<br>verifying network connectivity,<br>connecting to remote<br>resources, and modifying<br>display properties | (vi) apply troubleshooting<br>techniques, including modifying<br>display properties  |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (G) implement effective file<br>management strategies such<br>as file naming conventions,<br>location, backup, hierarchy,<br>folder structure, file<br>conversion, tags, labels, and<br>emerging digital organizational<br>strategies                 | (i) implement effective file<br>management strategies                                |         |            |

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| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (H) evaluate how changes in<br>technology throughout history<br>have impacted various areas<br>of study                                  |   |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (I) evaluate the relevance of<br>technology as it applies to<br>college and career readiness,<br>life-long learning, and daily<br>living | (i) evaluate the relevance of<br>technology as it applies to<br>college readiness     |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (I) evaluate the relevance of<br>technology as it applies to<br>college and career readiness,<br>life-long learning, and daily<br>living | (ii) evaluate the relevance of<br>technology as it applies to<br>career readiness     |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (I) evaluate the relevance of<br>technology as it applies to<br>college and career readiness,<br>life-long learning, and daily<br>living | (iii) evaluate the relevance of<br>technology as it applies to life-<br>long learning |         |            |

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| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (I) evaluate the relevance of<br>technology as it applies to<br>college and career readiness,<br>life-long learning, and daily<br>living | (iv) evaluate the relevance of<br>technology as it applies to daily<br>living |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (J) use a variety of local and remote input sources  | (i) use a variety of local input<br>sources                                   |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (J) use a variety of local and remote input sources  | (ii) use a variety of remote input<br>sources                                 |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (K) use keyboarding<br>techniques and ergonomic<br>strategies while building speed<br>and accuracy                                       | (i) use keyboarding techniques<br>while building speed                        |         |            |

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| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (K) use keyboarding<br>techniques and ergonomic<br>strategies while building speed<br>and accuracy | (ii) use keyboarding techniques<br>while building accuracy |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (K) use keyboarding<br>techniques and ergonomic<br>strategies while building speed<br>and accuracy | (iii) use ergonomic strategies<br>while building speed     |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (K) use keyboarding<br>techniques and ergonomic<br>strategies while building speed<br>and accuracy | (iv) use ergonomic strategies<br>while building accuracy   |         |            |

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| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (L) create and edit files with<br>productivity tools including: (i)<br>a word processing document<br>using digital typography<br>standards such as page<br>layout, font formatting,<br>paragraph formatting, mail<br>merge, and list attributes; (ii) a<br>spreadsheet workbook using<br>advanced computational and<br>graphic components such as<br>complex formulas, advanced<br>functions, data types, and<br>chart generation; (iii) a<br>database by manipulating<br>components including defining<br>fields, entering data, and<br>designing layouts appropriate<br>for reporting; (iv) digital<br>publications using relevant<br>publication standards and<br>graphic design principles | (i) create files with productivity<br>tools including a word<br>processing document using<br>digital typography standards |         |            |

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| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (L) create and edit files with<br>productivity tools including: (i)<br>a word processing document<br>using digital typography<br>standards such as page<br>layout, font formatting,<br>paragraph formatting, mail<br>merge, and list attributes; (ii) a<br>spreadsheet workbook using<br>advanced computational and<br>graphic components such as<br>complex formulas, advanced<br>functions, data types, and<br>chart generation; (iii) a<br>database by manipulating<br>components including defining<br>fields, entering data, and<br>designing layouts appropriate<br>for reporting; (iv) digital<br>publications using relevant<br>publication standards and<br>graphic design principles | (ii) create files with productivity<br>tools including a spreadsheet<br>workbook using advanced<br>computational components |         |            |

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| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (L) create and edit files with<br>productivity tools including: (i)<br>a word processing document<br>using digital typography<br>standards such as page<br>layout, font formatting,<br>paragraph formatting, mail<br>merge, and list attributes; (ii) a<br>spreadsheet workbook using<br>advanced computational and<br>graphic components such as<br>complex formulas, advanced<br>functions, data types, and<br>chart generation; (iii) a<br>database by manipulating<br>components including defining<br>fields, entering data, and<br>designing layouts appropriate<br>for reporting; (iv) digital<br>publications using relevant<br>publication standards and<br>graphic design principles | (ix) edit files with productivity<br>tools including a word<br>processing document using<br>digital typography standards |         |            |

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| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (L) create and edit files with<br>productivity tools including: (i)<br>a word processing document<br>using digital typography<br>standards such as page<br>layout, font formatting,<br>paragraph formatting, mail<br>merge, and list attributes; (ii) a<br>spreadsheet workbook using<br>advanced computational and<br>graphic components such as<br>complex formulas, advanced<br>functions, data types, and<br>chart generation; (iii) a<br>database by manipulating<br>components including defining<br>fields, entering data, and<br>designing layouts appropriate<br>for reporting; (iv) digital<br>publications using relevant<br>publication standards and<br>graphic design principles | (xi) edit files with productivity<br>tools including a spreadsheet<br>workbook using advanced<br>graphic components |         |            |

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| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (L) create and edit files with<br>productivity tools including: (i)<br>a word processing document<br>using digital typography<br>standards such as page<br>layout, font formatting,<br>paragraph formatting, mail<br>merge, and list attributes; (ii) a<br>spreadsheet workbook using<br>advanced computational and<br>graphic components such as<br>complex formulas, advanced<br>functions, data types, and<br>chart generation; (iii) a<br>database by manipulating<br>components including defining<br>fields, entering data, and<br>designing layouts appropriate<br>for reporting; (iv) digital<br>publications using relevant<br>publication standards and<br>graphic design principles | (xiii) edit files with productivity<br>tools including a database by<br>manipulating components,<br>including entering data |         |            |

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| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (L) create and edit files with<br>productivity tools including: (i)<br>a word processing document<br>using digital typography<br>standards such as page<br>layout, font formatting,<br>paragraph formatting, mail<br>merge, and list attributes; (ii) a<br>spreadsheet workbook using<br>advanced computational and<br>graphic components such as<br>complex formulas, advanced<br>functions, data types, and<br>chart generation; (iii) a<br>database by manipulating<br>components including defining<br>fields, entering data, and<br>designing layouts appropriate<br>for reporting; (iv) digital<br>publications using relevant<br>publication standards and<br>graphic design principles | (xiv) edit files with productivity<br>tools including a database by<br>manipulating components,<br>including designing layouts<br>appropriate for reporting |         |            |

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| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (M) plan and create non-linear<br>media projects using graphic<br>design principles  | (i) plan non-linear media<br>projects using graphic design<br>principles   |         |            |

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| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (M) plan and create non-linear<br>media projects using graphic<br>design principles | (ii) create non-linear media<br>projects using graphic design<br>principles |         |            |
| (6) Technology operations<br>and concepts. The student<br>demonstrates a thorough<br>understanding of technology<br>concepts, systems, and<br>operations. The student is<br>expected to: | (N) integrate two or more<br>technology tools to create a<br>new digital product.   |   |         |            |