

FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS

Subject Area: Business and Computer Science **State-Funded Course:** Computing in the Modern World

Textbook Title: Computers: Understanding Technology-Comprehensive

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<u>Standard</u> (Cite Number)	<u>Standard</u> (Cite specific standard)	<u>Where Taught</u> (If print component, cite page number; if non-print, cite appropriate location.)
BCS-CMW-1	<p><u>CAREERS, ETHICS, AND HISTORY OF COMPUTING</u></p> <p>Students will explore careers in the field of computing, identify key developments in the history of computing, and identify professional and ethical issues involved with computing in our society.</p> <p>Students will explore the different careers available in the field of computing</p> <p>a. Identify the certifications available.</p> <p>b. Compare and contrast careers in computing along with their education, training requirements, and salary ranges.</p> <p>c. Identify the college majors that require at least one course in computing.</p>	<p>SE: 694-699, 708, 711 (Matching)</p> <p>SE: 680-689, 692, 702, 708, 710-711 (Matching)</p> <p><i>This standard is not addressed in the text.</i></p>

<p>Academic Standards:</p> <p><i>ELA10W2</i></p> <p><i>ELA10W3</i></p>	<p>d. Investigate how computing is used in other disciplines.</p> <p>e. Demonstrate understanding of education and career development as a lifelong learning process.</p> <p>f. Identify gender and diversity related issues in computing.</p> <p>g. List and describe professional organizations in the field of computing.</p>	<p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 213-239, 305-318</p> <p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 680-709</p> <p>SE: 703</p> <p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 694-699</p>
	<p><i>The student demonstrates competence in a variety of genres.</i></p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
	<p><i>The student uses research and technology to support writing.</i></p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>

<i>ELA10RL2</i>	<i>The student identifies, analyzes, and applies knowledge of theme in literary works and provides evidence from the works to support understanding.</i>	<i>This standard is not addressed in the text.</i>
<i>ELA10RL4</i>	<i>The student employs a variety of writing genres to demonstrate a comprehensive grasp of significant ideas in sophisticated literary works. The student composes essays, narratives, poems, or technical documents.</i>	SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)
<i>ELA10RL5</i>	<i>The student understands and acquires new vocabulary and uses it correctly in reading and writing.</i>	SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)
<i>ELA10RC3</i>	<i>The student acquires new vocabulary in each content area and uses it correctly.</i>	SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)
<i>ELA10RC4</i>	<i>The student establishes a context for information acquired by reading across subject area</i>	SE: 2 (Cyber Scenario), 46 (Cyber Scenario), 100 (Cyber Scenario), 154 (Cyber Scenario), 202 (Cyber Scenario), 254 (Cyber Scenario), 304 (Cyber Scenario), 358 (Cyber Scenario), 400 (Cyber Scenario)
<i>ELA10LSV1</i>	<i>The student participates in student-to-teacher, student-to-student, and group verbal interactions.</i>	SE: 42-43 (Team Problem-Solving, Group Discussion and Debate), 97-98 (Team Problem-Solving, Group Discussion and Debate), 150-151 (Team Problem-Solving, Group Discussion and Debate), 198-199 (Team Problem-Solving, Group Discussion and Debate), 250-251 (Team Problem-Solving, Group Discussion and Debate), 300-302 (Team Problem-Solving, Group

<p>BCS-CMW-2</p>	<p>Students will identify key developments and individuals relating to the history of computing and explore emerging technologies.</p> <p>a. Describe the development of hardware, programming languages, and applications.</p> <p>b. Identify persons with major contributions to the field of computing.</p> <p>c. Outline the history and development of the Internet and explain its effects on computing and society.</p> <p>d. Identify and describe emerging technologies.</p> <p>e. Demonstrate an understanding of Moore’s Law and its applicability to emerging technologies.</p>	<p>Discussion and Debate), 354-355 (Team Problem-Solving, Group Discussion and Debate), 396-397 (Team Problem-Solving, Group Discussion and Debate), 439-440 (Team Problem-Solving, Group Discussion and Debate)</p> <p>SE: 552-554, 561-562, 570</p> <p>SE: 22 (Tech Visionary), 54 (Tech Visionary), 62-63 (Tech Visionary), 77 (Tech Visionary), 105 (Tech Visionary), 170 (Tech Visionary), 178 (Tech Visionary), 212 (Tech Visionary), 232 (Tech Visionary), 262 (Tech Visionary), 286 (Tech Visionary), 308 (Tech Visionary), 313 (Tech Visionary), 317 (Tech Visionary), 380 (Tech Visionary), 411 (Tech Visionary), 450 (Tech Visionary), 503 (Tech Visionary), 554 (Tech Visionary), 606 (Tech Visionary), 634 (Tech Visionary)</p> <p>SE: 41 (Research and Writing, 3), 303-355, TI: A1-A14</p> <p>SE: 27 (Cutting Edge), 33-34, 70 (Cutting Edge), 87-89, 124 (Cutting Edge), 141-142, 189-190, 230 (Cutting Edge), 240-242, 279 (Cutting Edge), 291-292, 330 (Cutting Edge), 344-346, 387-388, 430-431, 610 (Cutting Edge) 700 (Hot Spot)</p> <p>SE: 54 (Tech Visionary), 97 (Internet Research and Reporting 1)</p>
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<p>Academic Standards:</p> <p><i>MM2A2</i></p> <p><i>ELA10RL2</i></p> <p><i>ELA10RL4</i></p> <p><i>ELA10RL5</i></p> <p><i>ELA10RC3</i></p> <p><i>ELA10RC4</i></p>	<p><i>Students will explore exponential functions.</i></p> <p><i>The student identifies, analyzes, and applies knowledge of theme in literary works and provides evidence from the works to support understanding.</i></p> <p><i>The student employs a variety of writing genres to demonstrate a comprehensive grasp of significant ideas in sophisticated literary works. The student composes essays, narratives, poems, or technical documents.</i></p> <p><i>The student understands and acquires new vocabulary and uses it correctly in reading and writing.</i></p> <p><i>The student acquires new vocabulary in each content area and uses it correctly.</i></p> <p><i>The student establishes a context for information acquired by reading across subject areas.</i></p>	<p><i>This standard is not addressed in the text.</i></p> <p><i>This standard is not addressed in the text.</i></p> <p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p> <p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p> <p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p> <p>SE: 2 (Cyber Scenario), 46 (Cyber Scenario), 100 (Cyber Scenario), 154 (Cyber Scenario), 202 (Cyber Scenario), 254 (Cyber Scenario), 304 (Cyber Scenario), 358 (Cyber Scenario), 400 (Cyber Scenario)</p>
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<i>ELA10W2</i>	<i>The student demonstrates competence in a variety of genres.</i>	SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)
<i>ELA10W3</i>	<i>The student uses research and technology to support writing.</i>	SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)
<i>ELA10LSVI</i>	<i>The student participates in student-to-teacher, student-to-student, and group verbal interactions.</i>	SE: 42-43 (Team Problem-Solving, Group Discussion and Debate), 97-98 (Team Problem-Solving, Group Discussion and Debate), 150-151 (Team Problem-Solving, Group Discussion and Debate), 198-199 (Team Problem-Solving, Group Discussion and Debate), 250-251 (Team Problem-Solving, Group Discussion and Debate), 300-302 (Team Problem-Solving, Group Discussion and Debate), 354-355 (Team Problem-Solving, Group Discussion and Debate), 396-397 (Team Problem-Solving, Group Discussion and Debate), 439-440 (Team Problem-Solving, Group Discussion and Debate)
BCS-CMW-3	Students will examine the professional and ethical issues involved in the use of computer technology a. Identify and describe the relevant professional codes.	<i>Opportunities to address this standard can be found on the following pages:</i> SE: 98, 151, 199, 251, 302, 355, 395, 397, 440, 442, 479, 665-666

<p>Academic Standards:</p> <p>ELA10W2</p>	<p>b. Explain the pros and cons of hacking and cracking.</p> <p>c. Explain the consequences of software piracy on software developers and the role of relevant enforcement organizations.</p> <p>d. Identify the benefits and drawbacks of public domain software.</p> <p>e. Determine the reliability of information posted on the Internet.</p> <p>f. Explain ethics issues involving security, privacy, intellectual property, and licensing.</p> <p>g. Identify and explain the effects of technology crimes such as viruses, hacking, and identity theft.</p> <p><i>The student demonstrates competence in a variety of genres.</i></p>	<p>SE: 302 (Group Discussion and Debate), 361, 375, 653-655</p> <p>SE: 199 (Group Discussions and Debate)</p> <p>SE: 181 (Cutting Edge), 198 (Research and Writing 1; Internet Research and Reporting 1), 207</p> <p><i>Opportunities to address this standard can be found on the following pages:</i></p> <p>SE: 335-337, IT-17</p> <p>SE: 343-344, 357-396, 440 (Group Discussion and Debate), 629-638</p> <p>SE:198 (Research and Writing 2), 357-396, 439 (Internet Research and Reporting), 653-654</p> <p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
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<p><i>ELA10W3</i></p>	<p><i>The student uses research and technology to support writing.</i></p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
<p><i>ELA10LSVI</i></p>	<p><i>The student participates in student-to-teacher, student-to-student, and group verbal interactions.</i></p>	<p>SE: 42-43 (Team Problem-Solving, Group Discussion and Debate), 97-98 (Team Problem-Solving, Group Discussion and Debate), 150-151 (Team Problem-Solving, Group Discussion and Debate), 198-199 (Team Problem-Solving, Group Discussion and Debate), 250-251 (Team Problem-Solving, Group Discussion and Debate), 300-302 (Team Problem-Solving, Group Discussion and Debate), 354-355 (Team Problem-Solving, Group Discussion and Debate), 396-397 (Team Problem-Solving, Group Discussion and Debate), 439-440 (Team Problem-Solving, Group Discussion and Debate)</p>
<p>BCS-CMW-4</p>	<p><u>HARDWARE AND SOFTWARE COMPONENTS</u></p> <p>Students will be able to describe the major hardware and software components of a computer and their interaction. Students will be able to compare and contrast computer features. Students will demonstrate an understanding of how numbers, characters, images, sounds/songs, and videos are represented in a computer.</p> <p>Students will describe the major hardware and software components of a computer and their interactions.</p>	

	<p>a. Identify and define the key functional components (input devices, output devices, processor, operating system, software applications, memory, storage, etc).</p> <p>b. Understand the terms and units that are used to describe major hardware components (RAM, ROM, GHz, MHz, GB, MB, MHz, CD, DVD, RW, etc).</p> <p>c. Describe the interaction between functional components in the execution of a software application.</p> <p>d. List the steps in setting up a new computer.</p>	<p>SE: 1-43, 45-98, 99-151, 153-199, 201-251, TI: B1-B8</p> <p>SE: 45-98, 99-151, TI: B2-B5</p> <p>SE: 162-169, 201-251</p> <p>TI: B7-B8</p>
<p>Academic Standards:</p> <p><i>ELA10RL5</i></p>	<p><i>The student understands and acquires new vocabulary and uses it correctly in reading and writing.</i></p>	<p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p>
<p><i>ELA10RC3</i></p>	<p><i>The student acquires new vocabulary in each content area and uses it correctly.</i></p>	<p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p>
<p><i>ELA10W1</i></p>	<p><i>The student produces writing that</i></p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97</p>

<p>BCS-CMW-5</p> <p><i>Academic Standard:</i></p> <p><i>ELA10W2</i></p> <p>BCS-CMW-6</p>	<p><i>establishes an appropriate organizational structure, sets a context and engages the reader, maintains a coherent focus throughout, and signals closure.</i></p> <p>Students will compare and contrast computer features.</p> <p>a. Choose computers based on commercial descriptions for use in different contexts.</p> <p>b. Make recommendations to improve a computer system.</p> <p><i>The student demonstrates competence in a variety of genres.</i></p> <p>Students will demonstrate an understanding of how numbers and characters are represented in a computer.</p>	<p>(Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p> <p>SE: 41 (Research and Writing 1-2)</p> <p>SE: 150 (Team Problem-Solving 2), 396 (Team-Problem Solving 3; Internet Research and Reporting 2)</p> <p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
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	<p>a. Define the terms bit and byte.</p> <p>b. Encode/decode a text message using ASCII or Unicode.</p> <p>c. Determine the number of patterns possible given the number of bits used.</p> <p>d. Convert numbers between decimal and binary.</p>	<p>SE: 64, 80, 90, 95 (Multiple Choice 5)</p> <p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 64-65</p> <p><i>Opportunities to address this standard can be found on the following pages:</i> 64</p> <p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 64-65</p>
<p>Academic Standards:</p>		
<p>MM2P4</p>	<p><i>Students will make connections among mathematical ideas and to other disciplines.</i></p>	<p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 80, 214-216</p>
<p>ELA10RL5</p>	<p><i>The student understands and acquires new vocabulary and uses it correctly in reading and writing.</i></p>	<p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p>
<p>ELA10RC3</p>	<p><i>The student acquires new vocabulary in each content area and uses it correctly.</i></p>	<p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p>
<p>BCS-CMW-7</p>	<p>Students will demonstrate an understanding of how pictures, sounds, and video are represented in a computer.</p> <p>a. Describe how a picture is digitized and</p>	<p>SE: 54-56, 57-58, 587</p>

<p><i>Academic Standard:</i></p> <p><i>ELA10W2</i></p>	<p>represented in a computer.</p> <p>b. Describe how a sound/song is digitized and represented in a computer.</p> <p>c. Describe how video is represented in a computer.</p> <p>d. Compare and contrast image formats, sound/song formats, and video formats.</p> <p><i>The student demonstrates competence in a variety of genres.</i></p> <p><u>NETWORKING BASICS</u></p> <p>Students will demonstrate knowledge of basic computer components and networks. Student will demonstrate knowledge of the issues in connecting a computer to a network, data transmission, and networking trends.</p> <p>Students will demonstrate knowledge of basic components of computer networks.</p> <p>a. Define key terms: servers, file</p>	<p>SE: 61-63, 314-315, 594-596</p> <p>SE: 59-60, 314-315, 597-600</p> <p>SE: 588-590</p> <p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p> <p>SE: 10-11, 29, 255-260, 270, 284-291, 297 (Matching 7), 324, 347</p>
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<p><i>Academic Standards:</i></p> <p><i>ELA10RL5</i></p> <p><i>ELA10RC3</i></p> <p>BCS-CMW-9</p>	<p>protection, routing protocols, spoolers, transmission types, LANS, WANS, queues, shared resources, fault/tolerance, and IP addresses.</p> <p>b. List the types of network topology: ring, star, and peer to peer.</p> <p>c. Compare and contrast types of networks, including LANs versus WANs and wireless versus wired.</p> <p>d. Compare and contrast network protocols: http, https, and ftp.</p> <p>e. Identify some of the security issues when using a network</p> <p><i>The student understands and acquires new vocabulary and uses it correctly in reading and writing.</i></p> <p><i>The student acquires new vocabulary in each content area and uses it correctly.</i></p> <p>Students will demonstrate knowledge of the issues involved in connecting a</p>	<p>SE: 276-279, 293-294</p> <p>SE: 269-276, 294</p> <p>SE: 284, 288, 385</p> <p>SE: 357-397</p> <p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p> <p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p>
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<p>Academic Standard:</p> <p><i>ELA10LSVI</i></p> <p>BCS-CMW-10</p>	<p>computer to a network.</p> <p>a. State hardware requirements.</p> <p>b. List the steps involved in connecting a computer to a network.</p> <p><i>The student participates in student-to-teacher, student-to-student, and group verbal interactions.</i></p> <p>Students will demonstrate an understanding of key issues in data transmission.</p> <p>a. Demonstrate knowledge of how data is passed in packets.</p> <p>b. Create a data collision.</p> <p>c. Explore ways to deal with network failure.</p> <p>d. Explain hierarchical addressing schemes.</p>	<p>SE: 279-282, 294</p> <p><i>Opportunities to address this standard can be found on the following pages: 253-302</i></p> <p>SE: 42-43 (Team Problem-Solving, Group Discussion and Debate), 97-98 (Team Problem-Solving, Group Discussion and Debate), 150-151 (Team Problem-Solving, Group Discussion and Debate), 198-199 (Team Problem-Solving, Group Discussion and Debate), 250-251 (Team Problem-Solving, Group Discussion and Debate), 300-302 (Team Problem-Solving, Group Discussion and Debate), 354-355 (Team Problem-Solving, Group Discussion and Debate), 396-397 (Team Problem-Solving, Group Discussion and Debate), 439-440 (Team Problem-Solving, Group Discussion and Debate)</p> <p>SE: 325-327, 328, 347, 353 (Label the Drawing)</p> <p><i>This standard is not addressed in the text.</i></p> <p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 425-430</p> <p>SE: 324-325</p>
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<p>Academic Standards:</p> <p><i>ELA10RL5</i></p> <p><i>ELA10RC3</i></p> <p>BCS-CMW-11</p>	<p><i>The student understands and acquires new vocabulary and uses it correctly in reading and writing.</i></p> <p><i>The student acquires new vocabulary in each content area and uses it correctly.</i></p> <p>Students will demonstrate knowledge of networking trends and issues.</p> <p>a. List reasons for installing a network.</p> <p>b. List important events in the evolution of networks.</p> <p>c. Analyze current trends and developments.</p>	<p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p> <p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p> <p><i>Opportunities to address this standard can be found on the following pages:</i></p> <p>SE: 253-302</p> <p>SE: 254-255</p> <p>SE: 299 (Brainstorming New Uses), 300-301 (Research and Writing; Team Problem-Solving; Internet Research and Reporting)</p>
<p>Academic Standards:</p> <p><i>ELA10W2</i></p>	<p><i>The student demonstrates competence in a variety of genres.</i></p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research</p>

<p><i>ELA10W3</i></p>	<p><i>The student uses research and technology to support writing.</i></p> <p><u>WEB DESIGN/INTERNET ESSENTIALS STANDARDS</u></p> <p>Students will execute Internet searches, explain the importance of Internet security, create basic Web sites, and evaluate Web sites.</p>	<p>and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p> <p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
<p>BCS-CMW-12</p>	<p>Students will demonstrate the ability to search for information and evaluate search results.</p> <p>a. Demonstrate basic searching techniques using Internet search engines.</p> <p>b. Use logic and set operators to refine a search.</p> <p>c. Evaluate search results with respect to relevance, reliability, and credibility.</p>	<p>SE: 335-336, IT: 1-7</p> <p>SE: 336, IT: 7-10</p> <p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 335-337 (Searching for Information on the Internet), IT: 1-10, IT-17</p>

<p>Academic Standards:</p> <p><i>ELA10W2</i></p> <p><i>ELA10W3</i></p> <p>BCS-CMW-13</p>	<p><i>The student demonstrates competence in a variety of genres.</i></p> <p><i>The student uses research and technology to support writing.</i></p> <p>Students will examine Internet security issues and recognize the importance of working in a secure environment.</p> <p>a. Explain the potential dangers of working in an insecure environment.</p> <p>b. Identify, compare, and contrast anti-virus software.</p> <p>c. Explain the purpose of a firewall.</p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p> <p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p> <p>SE: 360-373, 396 (Internet Research and Reporting 2), 635-646, 670</p> <p>SE: 184-185, 654-655, 670</p> <p>SE: 185, 186, 274, 275, 376-377, 654-655, 670, 674 (Completion)</p>
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<p>Academic Standards:</p> <p><i>ELA10RL5</i></p> <p><i>ELA10RC3</i></p> <p><i>ELA10W2</i></p> <p><i>ELA10W3</i></p>	<p>d. Describe the purpose of spyware/adware.</p> <p>e. Explain the concept of encryption and how it is used on a daily basis.</p> <p><i>The student understands and acquires new vocabulary and uses it correctly in reading and writing.</i></p> <p><i>The student acquires new vocabulary in each content area and uses it correctly.</i></p> <p><i>The student demonstrates competence in a variety of genres.</i></p> <p><i>The student uses research and technology to support writing.</i></p>	<p>SE: 188, 251</p> <p>SE: 384-386, 636, 642-645, 670</p> <p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p> <p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p> <p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p> <p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting)</p>
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<p>BCS-CMW-14</p>	<p>Students will evaluate, compare, and contrast Web sites.</p> <p>a. List the important issues in evaluating Web sites.</p> <p>b. Identify and critique the layout, navigation, and accessibility of a Web site based on its purpose.</p>	<p>Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p> <p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 335-337, 583, IT: 1-10, IT-17</p> <p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 335-337, 583, IT: 1-10, IT-17</p>
<p>Academic Standards:</p>		
<p><i>ELA10W2</i></p>	<p><i>The student demonstrates competence in a variety of genres.</i></p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
<p><i>ELA10W3</i></p>	<p><i>The student uses research and technology to support writing.</i></p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>

<p>BCS-CMW-15</p>	<p>Students will design and create a basic Web site.</p> <p>a. Demonstrate knowledge of basic HTML and scripting techniques.</p> <p>b. Use hypertext links to load new pages or activate processes.</p> <p>c. Use tools to express the design of a Web site.</p> <p>d. Demonstrate the ability to use various Web development software programs.</p> <p>e. Compare and contrast creating a Web page manually versus using a software development program.</p>	<p><i>Opportunities to address this standard can be found on the following pages: 328-330, 583, 568-569, 601-603</i></p> <p><i>This standard is not addressed in the text.</i></p> <p><i>Opportunities to address this standard can be found on the following pages: 583, 601-603</i></p> <p><i>Opportunities to address this standard can be found on the following pages: 583, 601-603</i></p> <p><i>Opportunities to address this standard can be found on the following pages: 583, 601-603</i></p>
<p>Academic Standards:</p>		
<p><i>ELA10C1</i></p>	<p><i>The student demonstrates understanding and control of the rules of the English language, realizing that usage involves the appropriate application of conventions and grammar in both written and spoken formats.</i></p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
<p><i>ELA10C2</i></p>	<p><i>The student demonstrates understanding</i></p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97</p>

<p>ELA10LSV2</p>	<p><i>of manuscript form, realizing that different forms of writing require different formats.</i></p> <p><i>The student analyzes visual and oral texts of different media presentations of the same issue.</i></p> <p><u>PROBLEM SOLVING</u></p> <p>Students will focus on developing various problem-solving strategies. Students will apply problem-solving strategies to solve specific problems.</p>	<p>(Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p> <p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
<p>BCS-CMW-16</p>	<p>Students will discuss examples that identify the broad interdisciplinary utility of computers and algorithmic problem solving in the modern world.</p> <p>a. List the different ways computers are used.</p> <p>b. Define algorithm.</p>	<p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 213-239, 305-318</p> <p><i>This standard is not addressed in the text.</i></p>

<p>Academic Standards:</p> <p><i>ELA10RL5</i></p> <p><i>ELA10RC3</i></p> <p><i>ELA10LSVI</i></p> <p>BCS-CMW-17</p>	<p>c. Identify examples of algorithmic problem solving in everyday life.</p> <p><i>The student understands and acquires new vocabulary and uses it correctly in reading and writing.</i></p> <p><i>The student acquires new vocabulary in each content area and uses it correctly.</i></p> <p><i>The student participates in student-to-teacher, student-to-student, and group verbal interactions.</i></p> <p>Students will apply strategies to solve various problems.</p> <p>a. Solve a variety of logic problems and identify the strategies used.</p>	<p><i>This standard is not addressed in the text.</i></p> <p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p> <p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p> <p>SE: 42-43 (Team Problem-Solving, Group Discussion and Debate), 97-98 (Team Problem-Solving, Group Discussion and Debate), 150-151 (Team Problem-Solving, Group Discussion and Debate), 198-199 (Team Problem-Solving, Group Discussion and Debate), 250-251 (Team Problem-Solving, Group Discussion and Debate), 300-302 (Team Problem-Solving, Group Discussion and Debate), 354-355 (Team Problem-Solving, Group Discussion and Debate), 396-397 (Team Problem-Solving, Group Discussion and Debate), 439-440 (Team Problem-Solving, Group Discussion and Debate)</p> <p>SE: 42 (Team Problem-Solving), 97 (Team Problem-Solving), 150 (Team Problem-Solving), 198 (Team Problem-Solving), 250 (Team Problem-Solving), 300-301 (Team Problem-Solving), 354 (Team Problem-Solving), 396 (Team Problem-Solving), 439 (Team Problem-Solving)</p>
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<p><u>Academic Standard:</u></p> <p><i>ELA10W1</i></p> <p>BCS-CMW-18</p> <p><u>Academic Standards:</u></p>	<p>b. List strategies for solving problems.</p> <p><i>The student produces writing that establishes an appropriate organizational structure, sets a context and engages the reader, maintains a coherent focus throughout, and signals closure.</i></p> <p>Students will apply algorithmic thinking to solve problems.</p> <p>a. Evaluate algorithmic definitions for various problems and identify errors and or weaknesses.</p> <p>b. Correct algorithmic definitions for various problems.</p> <p>c. Complete, evaluate, and adjust an algorithm for a problem.</p>	<p><i>Opportunities to address this standard can be found on the following pages:</i></p> <p>SE: 42 (Team Problem-Solving), 97 (Team Problem-Solving), 150 (Team Problem-Solving), 198 (Team Problem-Solving), 250 (Team Problem-Solving), 300-301 (Team Problem-Solving), 354 (Team Problem-Solving), 396 (Team Problem-Solving), 439 (Team Problem-Solving)</p> <p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p> <p><i>This standard is not addressed in the text.</i></p> <p><i>This standard is not addressed in the text.</i></p> <p><i>This standard is not addressed in the text.</i></p>
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<p><i>SCSh3</i></p>	<p><i>Students will identify and investigate problems scientifically.</i></p>	<p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 42 (Team Problem-Solving), 97 (Team Problem-Solving), 150 (Team Problem-Solving), 198 (Team Problem-Solving), 250 (Team Problem-Solving), 300-301 (Team Problem-Solving), 354 (Team Problem-Solving), 396 (Team Problem-Solving), 439 (Team Problem-Solving)</p>
<p><i>ELA10W1</i></p>	<p><i>The student produces writing that establishes an appropriate organizational structure, sets a context and engages the reader, maintains a coherent focus throughout, and signals closure.</i></p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
<p>BCS-CMW-19</p>	<p>Students will demonstrate an understanding of the basic steps in algorithmic problem solving.</p> <p>a. Formulate a formal problem statement.</p> <p>b. Explore the problem using strategies.</p> <p>c. Communicate the design of an algorithm.</p> <p>d. Code, test, and verify a solution.</p>	<p><i>This standard is not addressed in the text.</i></p> <p><i>This standard is not addressed in the text.</i></p> <p><i>This standard is not addressed in the text.</i></p> <p><i>This standard is not addressed in the text.</i></p>
<p>Academic Standards:</p> <p><i>ELA10W1</i></p>	<p><i>The student produces writing that</i></p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97</p>

	<p><i>establishes an appropriate organizational structure, sets a context and engages the reader, maintains a coherent focus throughout, and signals closure.</i></p>	<p>(Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
<p><i>ELA10W2</i></p>	<p><i>The student demonstrates competence in a variety of genres.</i></p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
<p><i>ELA10LSVI</i></p>	<p><i>The student participates in student-to-teacher, student-to-student, and group verbal interactions.</i></p>	<p>SE: 42-43 (Team Problem-Solving, Group Discussion and Debate), 97-98 (Team Problem-Solving, Group Discussion and Debate), 150-151 (Team Problem-Solving, Group Discussion and Debate), 198-199 (Team Problem-Solving, Group Discussion and Debate), 250-251 (Team Problem-Solving, Group Discussion and Debate), 300-302 (Team Problem-Solving, Group Discussion and Debate), 354-355 (Team Problem-Solving, Group Discussion and Debate), 396-397 (Team Problem-Solving, Group Discussion and Debate), 439-440 (Team Problem-Solving, Group Discussion and Debate)</p>
<p>BCS-CMW-20</p>	<p><u>PROGRAMMING</u></p> <p>Students will be introduced to basic programming concepts.</p> <p>Students will demonstrate an understanding of basic programming concepts.</p>	

<p><i>Academic Standards:</i></p> <p><i>ELA10RL5</i></p>	<p>a. Define basic programming concepts: variable, data type, procedure, parameter, conditional, iteration, flowchart, and pseudocode.</p> <p>b. Use variables of different data types in programs.</p> <p>c. Write programs with sequences, conditionals, and iteration.</p> <p>d. Use procedures in programs including ones that take parameters.</p> <p>e. Use tools to express the design of a program: flowcharts and pseudocode.</p> <p>f. Edit, compile, run, and test a program.</p> <p>g. Format a program to give a pleasing, consistent appearance.</p> <p>h. Discuss syntax, run-time, and logic errors.</p> <p>i. Debug a simple program.</p> <p><i>The student understands and acquires new vocabulary and uses it correctly in</i></p>	<p>SE: 542-545</p> <p><i>Opportunities to address this standard can be found in the following pages:</i> SE: 540-570</p> <p><i>Opportunities to address this standard can be found in the following pages:</i> SE: 540-570</p> <p><i>Opportunities to address this standard can be found in the following pages:</i> SE: 540-570</p> <p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 545-551, 561-562</p> <p><i>Opportunities to address this standard can be found in the following pages:</i> SE: 540-570</p> <p><i>Opportunities to address this standard can be found in the following pages:</i> SE: 540-570</p> <p>SE: 558-559, 570</p> <p><i>Opportunities to address this standard can be found on the following pages:</i> SE: 557-561</p> <p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302</p>
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<p><i>ELA10RC3</i></p>	<p><i>reading and writing.</i></p> <p><i>The student acquires new vocabulary in each content area and uses it correctly.</i></p>	<p>(Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p> <p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p>
<p><i>ELA10W1</i></p>	<p><i>The student produces writing that establishes an appropriate organizational structure, sets a context and engages the reader, maintains a coherent focus throughout, and signals closure.</i></p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
<p><i>ELA10W2</i></p>	<p><i>The student demonstrates competence in a variety of genres.</i></p>	<p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
<p><i>ELA10LSVI</i></p>	<p><i>The student participates in student-to-teacher, student-to-student, and group verbal interactions.</i></p>	<p>SE: 42-43 (Team Problem-Solving, Group Discussion and Debate), 97-98 (Team Problem-Solving, Group Discussion and Debate), 150-151 (Team Problem-Solving, Group Discussion and Debate), 198-199 (Team Problem-Solving, Group Discussion and Debate), 250-251 (Team Problem-Solving, Group Discussion and Debate), 300-302 (Team Problem-Solving, Group Discussion and Debate), 354-355 (Team Problem-Solving, Group Discussion and Debate), 396-397 (Team Problem-Solving, Group Discussion and Debate), 439-440 (Team Problem-Solving, Group Discussion and Debate)</p>

<p>BCS-CMW-21</p> <p><i>Academic Standard:</i></p> <p><i>ELA10LSVI</i></p> <p>BCS-CMW-22</p>	<p><u>LIMITS OF COMPUTING</u></p> <p>Students will understand that there are limits to computing.</p> <p>Students will demonstrate an understanding of the limitations of algorithms.</p> <p>a. Discuss problems for which an algorithm can't be written.</p> <p>b. Compare and contrast faster and slower ways to solve problems.</p> <p><i>The student participates in student-to-teacher, student-to-student, and group verbal interactions.</i></p> <p>Students will identify limits on computing imposed by the laws of physics.</p> <p>a. Define miniaturization.</p> <p>b. Explore alternatives to transistors.</p>	<p><i>This standard is not addressed in the text.</i></p> <p><i>This standard is not addressed in the text.</i></p> <p>SE: 42-43 (Team Problem-Solving, Group Discussion and Debate), 97-98 (Team Problem-Solving, Group Discussion and Debate), 150-151 (Team Problem-Solving, Group Discussion and Debate), 198-199 (Team Problem-Solving, Group Discussion and Debate), 250-251 (Team Problem-Solving, Group Discussion and Debate), 300-302 (Team Problem-Solving, Group Discussion and Debate), 354-355 (Team Problem-Solving, Group Discussion and Debate), 396-397 (Team Problem-Solving, Group Discussion and Debate), 439-440 (Team Problem-Solving, Group Discussion and Debate)</p> <p><i>This standard is not addressed in the text.</i></p> <p><i>This standard is not addressed in the text.</i></p>
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<p>Academic Standards:</p> <p><i>ELA10RL5</i></p> <p><i>ELA10RC3</i></p> <p><i>ELA10W2</i></p> <p><i>ELA10W3</i></p>	<p><i>The student understands and acquires new vocabulary and uses it correctly in reading and writing.</i></p> <p><i>The student acquires new vocabulary in each content area and uses it correctly.</i></p> <p><i>The student demonstrates competence in a variety of genres.</i></p> <p><i>The student uses research and technology to support writing.</i></p> <p><u>DATA STRUCTURES</u></p>	<p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p> <p>SE: 37-43 (Chapter Exercises), 93-98 (Chapter Exercises), 145-151 (Chapter Exercises), 193-199 (Chapter Exercises), 245-251 (Chapter Exercises), 296-302 (Chapter Exercises), 349-355 (Chapter Exercises), 391-397 (Chapter Exercises), 434-340 (Chapter Exercises)</p> <p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p> <p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
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<p>BCS-CMW-23</p> <p><i>Academic Standards:</i></p> <p><i>ELA10W1</i></p> <p><i>ELA10W2</i></p>	<p>Students will show the ability to use an ordered data structure.</p> <p><i>The student produces writing that establishes an appropriate organizational structure, sets a context and engages the reader, maintains a coherent focus throughout, and signals closure.</i></p> <p><i>The student demonstrates competence in a variety of genres.</i></p>	<p><i>This standard is not addressed in the text.</i></p> <p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p> <p>SE: 41-42 (Research and Writing, Internet Research and Reporting), 96-97 (Research and Writing, Internet Research and Reporting), 150-151 (Research and Writing, Internet Research and Reporting), 198 (Research and Writing, Internet Research and Reporting), 249-250 (Research and Writing, Internet Research and Reporting), 300-301 (Research and Writing, Internet Research and Reporting), 353-354 (Research and Writing, Internet Research and Reporting), 395-396 (Research and Writing, Internet Research and Reporting), 438-439 (Research and Writing, Internet Research and Reporting)</p>
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