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Coodboort Willow Dub	isher Correlation of
Goodheart-Willcox Publ	
Principles of Information	Technology ©2017 to
South Carolina Department of Education /	CTE Information Technology Standards
Course: Principles of Digi	tal Technology (5270)
STANDARDS AND INDICATORS	CORRELATING PAGES
	CONNELATING FAGES
A. SAFE	ТҮ
1. Review school safety policies and procedures.	Instruction:
2. Review classroom safety rules and procedures.	Pg. 41 Ethics Box: Computer Ethics
3. Review safety procedures for using equipment in the	Pg. 531 Ethical Use of the Internet
classroom.	Pg. 668 Safe Hardware and Software Practices
4. Identify major causes of work-related accidents in	
office environments.	
5. Demonstrate safety skills in an office/work	
environment.	
B. STUDENT ORG	ANIZATIONS
1. Identify the purpose and goals of a Career and	Instruction:
Technology Student Organization (CTSO). Explain how	Pg. 717 Career and Technical Student
CTSOs are integral parts of specific clusters, majors,	Organizations
and/or courses.	Application:
2. Explain the benefits and responsibilities of being a	All End of Chapter CTSO Event Prep sections
member of a CTSO.	
3. List leadership opportunities that are available to	
students through participation in CTSO conferences,	
competitions, community service, philanthropy, and	
other activities.	
4. Explain how participation in CTSOs can promote	
lifelong benefits in other professional and civic	
organizations.	
C. TECHNOLOGY I	KNOWLEDGE
1. Demonstrate proficiency and skills associated with	Instruction:
the use of technologies that are common to a specific	Pg. 335-336 Intellectual Property
occupation.	Pg. 336 Figure 8-11
2. Identify proper netiquette when using e-mail, social	Pg. 336-337 Software Piracy
media, and other technologies for communication	Pg. 338 Proper Usage of Information
purposes.	Pg. 595 Message
3. Identify potential abuse and unethical uses of	Pg. 619 Online Presence
laptops, tablets, computers, and/or networks.	Pg. 625 Cyberbullying
4. Explain the consequences of social, illegal, and	Pg. 626 Cell Phone Use
unethical uses of technology (e.g., piracy; illegal	Pg. 669-672 Combating Viruses and Other
downloading; licensing infringement; inappropriate	MalwareDetermining Reliable Websites
uses of software, hardware, and mobile devices in the work environment).	Pg. 674 Pirated Media
5. Discuss legal issues and the terms of use related to	Pg. 674-677 Preventing Threats from Public Intrusion
copyright laws, fair use laws, and ethics pertaining to	Pg. 685-700 Chapter 17.1 Careers in IT
downloading of images, photographs, documents,	Application:
video, sounds, music, trademarks, and other elements	Pg. 341 Check Your Understanding #1-5
for personal use.	Pg. 343 Review and Assessment #5,9,10,15
	Pg.344 Application and Extension of Knowledge #4
	1 5.377 Application and Extension of Knowledge #4



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6. Describe ethical and legal practices of safeguarding	Pg. 622 Hands-On Example 15.3.1
the confidentiality of business-related information.	Pg. 626 Hands-On Example 15.3.2
7. Describe possible threats to a laptop, tablet,	Pg. 631 Check Your Understanding #3
computer, and/or network and methods of avoiding	Pg. 634 Review and Assessment #5
attacks.	Pg. 671 Hands-On Example 16.3.2
	Pg. 700 Check Your Understanding #4,5
	Pg. 728 Chapter 17 Test #1,2,6-8,11-15
	Pg. 730 Application and Extension of Knowledge #5
D. PERSONAL QUALITIES AN	D EMPLOYABILITY SKILLS
1. Demonstrate punctuality.	Instruction:
2. Demonstrate self-representation.	Pg.702-708 Personal-Success Skills
3. Demonstrate work ethic.	Pg.708-715 Researching a Career
4. Demonstrate respect.	Pg.715-722 Education, Certification, Training, and
5. Demonstrate time management.	Experience
6. Demonstrate integrity.	Application:
7. Demonstrate leadership.	All Teamwork activities at End of Chapters
8. Demonstrate teamwork and collaboration.	Pg. 727 Check Your Understanding #1
9. Demonstrate conflict resolution.	
10. Demonstrate perseverance.	
11. Demonstrate commitment.	
12. Demonstrate a healthy view of competition.	
13. Demonstrate a global perspective.	
14. Demonstrate health and fitness.	
15. Demonstrate self-direction.	
16. Demonstrate lifelong learning.	
E. PROFESSIONAL	KNOWLEDGE
1. Demonstrate effective speaking and listening skills.	Instruction:
2. Demonstrate effective reading and writing skills.	Pg. 659 Ethical Behavior in Cyberspace
3. Demonstrate mathematical reasoning.	Pg.702-708 Personal-Success Skills
Demonstrate job-specific mathematics skills.	Pg.708-715 Researching a Career
5. Demonstrate critical-thinking and problem-solving	Pg.715-722 Education, Certification, Training, and
skills.	Experience
6. Demonstrate creativity and resourcefulness.	Pg. 722-726 Resume and Portfolio
7. Demonstrate an understanding of business ethics.	Application:
8. Demonstrate confidentiality.	All Communication Skills activities at End of
9. Demonstrate an understanding of workplace	Chapters
structures, organizations, systems, and climates.	Pg. 727 Check Your Understanding #1
10. Demonstrate diversity awareness.	
11. Demonstrate job acquisition and advancement	
skills.	
12. Demonstrate task management skills.	
13. Demonstrate customer-service skills.	
F. COMPUTING FU	NDAMENTALS
1. Commuteral landscore	
1. Computer Hardware	Instruction:
-	Instruction: Pg. 8-9 Networked Computers
1. Computer Hardware a. Identify types of computers, how they process information and how individual computers interact	
a. Identify types of computers, how they process	Pg. 8-9 Networked Computers
a. Identify types of computers, how they process information and how individual computers interact	Pg. 8-9 Networked Computers Pg. 37-40 Categories of Computers



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c. Identify system requirements that go into the decision for purchasing computer equipment. d. Identify how to maintain computer equipment and solve common problems relating to computer hardware.	Pg. 179-183 Computer Models, Needs Assessment, Recommended Standard ConfigurationsPg. 186-Maintaining the HardwarePg. 193-198 Troubleshooting Hardware ProblemsPg. 558-563 Network Connection TechnologiesApplication:Pg. 48 Check Your Understanding #1Pg. 66 Hands-On Example 2.2.1Pg. 69 Check Your Understanding #2-5Pg. 76 Review and Assessment #1,2,6Pg. 183 Hands-On Example 5.1.1Pg.184 Check Your Understanding #1-5Pg. 205 Check Your Understanding #1,2Pg. 205 Check Your Understanding #3Pg. 206-207 Review and Assessment #1-4, 6-9, 11, 14Pg. 207-208 Application and Extension of Knowledge #1
 2. Computer Software a. Identify how software and hardware work together to perform computing tasks and how software is developed and upgraded. b. Identify different types of software, general concepts relating to software categories, and the tasks to which each type of software is most suited or not suited. 	Instruction: Pg. 15-18 New and Emerging Classes of Software Pg. 110- 111 Software Licenses and Versions Pg. 113-123 Application Software Pg. 668-669 Safe Hardware and Software Practices Application: Pg. 16-18 Hands-On Example 1.1.1 Pg. 19 Check Your Understanding #5 Pg. 112 Hands-On Example 3.3.1 Pg. 117-118 Hands-On Example 3.3.2 Pg. 120-121 Hands-On Example 3.3.3
 3. Using an Operating System a. Distinguish between common operating systems, e.g. Microsoft Windows, Linux, Mac OS X, Android, and iOS. b. Identify what an operating system is and how it works, and solve common problems related to operating systems. c. Manipulate and control the Windows desktop, files, and disks; identify how to change system settings, install and remove software. 	Instruction: Pg. 47 Operating System Pg. 94-104 Operating Systems Pg. 123-127 Installing Software Pg. 135-140 Windows File and Folder Names Pg. 140-146 Windows File Explorer Pg. 203 Windows 7 Startup Programs Application: Pg. 104 Hands-On Example 3.2.3 Pg. 142-143 Hands-On Example 4.1.1 Pg. 145 Hands-On Example 4.1.2 Pg. 146-147 Hands-On Example 4.1.3 Pg. 148 Check Your Understanding #1-5
 4. Digital Communications a. Identify various digital communication devices. b. Identify advantages and limitations of digital communication subscriptions. c. Evaluate functions of digital devices relative to data usage and/or Wi-Fi connectivity. d. Identify advantages and implications of owning a device, carrier and connection plans, and contracts. 	Instruction: Pg. 11-13 Communication Technologies Pg. 38-40 Personal Computers and Mobile Devices Pg. 113-114 Apps Pg. 512 Internet Service Provider Pg. 558 Network Connection Technologies Pg. 606-607 Telephone Communication Pg. 609-610 SMS



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Pg. 610 IM Pg. 611 Multimedia Messaging Service (MMS),
•
VoIP
Pg. 611-612 Conference Communication
Pg. 612 streaming Media
Pg. 626-628 Cell Phone Use
Application:
Pg. 610-611 Hands-On Example 15.2.1
Pg. 612 Hands-On Example 15.2.2
Pg. 617 Check Your Understanding #1-5
Pg. 633 Review and Assessment #13, 15
Instruction:
Pg. 9 Cloud Computing
Pg. 113-114 Application Software
Pg. 114 Productivity Software
Pg. 591 Microsoft Outlook
Pg. 628 Collaboration
Pg. 629 Figure 15-18
Pg. 691 Cloud Computing
Application:
Pg. 117-118 Hands-On Example 3.3.2
Pg. 592-593 Hands-On Example 15.1.1
ATIONS
Instruction:
Pg. 215 Launching Applications
Pg. 217-220 Common Features and Functions
Pg. 220-222 Displaying Multiple Windows
Application:
Pg. 219 Hands-On Example 6.1.1
Pg. 220 Hands-On Example 6.1.2
Pg. 222-223 Hands-On Example 6.1.3
Instruction:
Pg. 215 Launching Microsoft Word
Pg. 226-228 Saving Files
Pg. 228-230 Printing Files
Pg. 231 Closing Files and Applications
Pg. 231 Opening Files
Pg. 234-237 Editing Text
Pg. 238-239 Inserting Media Files
Pg. 241-242 Reversing Errors
Pg. 246-248 Formatting Text
Pg. 255-257 Office Options
Pg. 280-282 Tables
Pg. 280-282 Tables Application:
Application:
-



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	Pg. 232 Check Your Understanding #1-5
	Pg. 237 Hands-On Example 6.3.1
	Pg. 240-241 Hands-On Example 6.3.2
	Pg. 242 Hands-On Example 6.3.3
	Pg. 248-249 Hands-On Example 6.3.5
	Pg. 249 Hands-On Example 6.3.6
	Pg. 250 Check Your Understanding #1-5
	Pg. 257-258 Hands-On Example 6.4.1
	Pg. 281 Hands-On Example 7.1.7
3. Basic Spreadsheet Functions	Instruction:
a. Demonstrate the ability to modify and format	Pg. 216 Launching Microsoft Excel
worksheet data.	Pg. 403-404 Entering Data
b. Demonstrate the ability to sort data, manipulate data	Pg. 404-405 Using Formulas
using formulas and functions.	Pg. 406-408 Editing Data
c. Demonstrate the ability to add or modify charts.	Pg. 410-417 Customizing the Appearance
	Pg. 417-418 Changing Data Location
	Pg. 419-421 Rearranging Data
	Pg. 422-424 Locating and Organizing Data
	Application:
	Pg. 405-406 Hands-On Example 10.1.1
	Pg. 408 Hands-On Example 10.1.2
	Pg. 408 Check Your Understanding #2-5
	Pg. 411 Hands-On Example 10.2.1
	Pg. 413-414 Hands-On Example 10.2.2
	Pg. 415 Hands-On Example 10.2.3
	Pg. 417 Hands-On Example 10.2.4
	Pg. 419 Hands-On Example 10.2.5
	Pg. 421-422 Hands-On Example 10.2.6
	Pg. 425-426 Hands-On Example 10.2.7
4. Basic Presentation Software	Instruction:
a. Demonstrate the ability to create simple	Pg. 216 Launching Microsoft PowerPoint
presentations.	Pg. 349-354 Purpose and Planning
b. Demonstrate the ability to format simple	Pg. 354-365 Working with a Presentation
presentations	Pg. 371 Creating a New Presentation
	Pg. 373-380 Advanced Features
	Application:
	Pg. 354 Hands-On Example 9.1.1
	Pg. 356-357 Hands-On Example 9.1.2
	Pg. 358-360 Hands-On Example 9.1.3
	Pg. 361 Hands-On Example 9.1.4
	Pg. 362-363 Hands-On Example 9.1.5
	Pg. 364-365 Hands-On Example 9.1.6
	Pg. 368 Hands-On Example 9.1.7
	Pg. 369 Check Your Understanding #1-5
	Pg. 372-373 Hands-On Example 9.2.1
	Pg. 374 Hands-On Example 9.2.2
	Pg. 375-376 Hands-On Example 9.2.3
	Pg. 375-376 Hands-On Example 9.2.4
	Pg. 378-379 Hands-On Example 9.2.5
	Pg. 380-381 Hands-On Example 9.2.6



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	Pg. 381 Check Your Understanding #1-5
5. Basic Database Applications	Instruction:
a. Demonstrate the ability to create a basic database.	Pg. 468-470 Examining a Database
b. Use, query, and navigate a basic database.	Pg. 471-474 Creating a Database Structure
	Pg. 478 Importing Records into a Database
	Pg. 480-485 Viewing Data
	Pg. 486-490 Joining Tables
	Pg. 493-498 Locating Data
	Pg. 498-499 Creating Calculated Fields
	Pg. 499-500 Creating Statistical Fields
	Application:
	Pg. 469 Hands-On Example 12.1.1
	Pg. 469-470 Hands-On Example 12.1.2
	Pg. 471 Hands-On Example 12.1.3
	Pg. 474-475 Hands-On Example 12.1.4
	Pg. 479-480 Hands-On Example 12.2.1
	Pg. 482 Hands-On Example 12.2.2
	Pg. 483-484 Hands-On Example 12.2.3
	Pg. 485-486 Hands-On Example 12.2.4
	Pg. 490-491 Hands-On Example 12.2.5
	Pg. 494 Hands-On Example 12.3.1
	Pg. 496-497 Hands-On Example 12.3.2
	Pg. 498 Hands-On Example 12.3.3
	Pg. 499 Hands-On Example 12.3.4
	Pg. 500-501 Hands-On Example 12.3.5
H. LIVING C	DNLINE
1. Using the Internet and the World Wide Web	Instruction:
a. Differentiate between the World Wide Web and the	Pg. 511 Internet
internet.	Pg. 515 World Wide Web
b. Describe how computers are connected to	Pg. 524 HTML and Web 2.0
communication networks and the Internet.	Pg. 527-531 Using Search Engines
c. Demonstrate the ability to create and locate online	Pg. 534-535 Designing for the Web
content.	Pg. 537-546 HTML
d. Be able to use a standard web browsing application,	Pg. 546-549 Programming Languages
i.e. Microsoft Internet Explorer/Edge, Mozilla Firefox,	Application:
Safari, Chrome, Opera, etc.	Pg. 536-537 Hands-On Example 13.2.1
e. Be able to search the Internet for information using a	Pg. 540-541 Hands-On Example 13.2.2
variety of search engines, e.g. Yahoo, Google, Bing, etc.	Pg. 545 Hands-On Example 13.2.3
f. Evaluate various websites for valid information	Pg. 548 Hands-On Example 13.2.4
including author, content, and audience.	Pg. 549 Check Your Understanding #1-5
2. The Impact of Computing and the Internet on	Instruction:
Society	Pg. 13-18 Emerging Technologies
a. Explain the impact of computing and the Internet on	Pg. 21-22 Worker Productivity
society.	Pg. 22-23 Current Employment
society. b. Identify how computers are used in different areas of	Pg. 22-23 Current Employment Pg. 23-24 Future Employment
b. Identify how computers are used in different areas of	Pg. 23-24 Future Employment
b. Identify how computers are used in different areas of work, school, and home.	Pg. 23-24 Future Employment Pg. 26-28 Cultural and Societal Issues
b. Identify how computers are used in different areas of work, school, and home.c. Identify the risks of using computer hardware and	Pg. 23-24 Future Employment Pg. 26-28 Cultural and Societal Issues Pg. 28-29 Closing the Digital Divide
b. Identify how computers are used in different areas of work, school, and home.c. Identify the risks of using computer hardware and software.	Pg. 23-24 Future Employment Pg. 26-28 Cultural and Societal Issues Pg. 28-29 Closing the Digital Divide Pg. 531 Ethical Use of the Internet
b. Identify how computers are used in different areas of work, school, and home.c. Identify the risks of using computer hardware and	Pg. 23-24 Future Employment Pg. 26-28 Cultural and Societal Issues Pg. 28-29 Closing the Digital Divide



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e. Describe threats to a computer network and online	Pg.647-648 Protecting Stored Data
accounts, methods of avoiding attacks, and options for	Pg. 651-654 Identity Protection on the Internet
dealing with virus attacks.	Pg. 654-658 Identity Protection in E-mail
	Pg. 668-669 Safe Hardware and Software Practices
	Pg. 669-671 Combating Viruses and Other
	Malware
	Pg. 672-674 Determining Reliable Websites
	Pg. 674-677 Preventing Threats from Public
	Intrusion
	Application:
	Pg. 24 Check Your Understanding #1-5
	Pg. 29 Check Your Understanding #1-5
	Pg. 644 Hands-On Example 16.1.1
	Pg. 648-649 Hands-On Example 16.1.2
	Pg. 649 Check Your Understanding #1-5
	Pg. 652 Hands-On Example 16.2.1
	Pg. 661 Hands-On Example 16.2.2
	Pg. 671 Hands-On Example 16.3.2
	Pg. 677 Check Your Understanding #1-5
3. Organizing Your Digital Life (Calendaring, Social	Instruction:
Media, Online Conferencing, Streaming Media	Pg. 511 Internet
Literacy)	Pg. 515 Upload and Download
a. Create events and appointments through an online	Pg. 521 Downloads
calendar.	Pg. 519-520 Home Page
b. Create notifications, alerts, and rules.	Pg. 567 Network Types
c. Maximize the use of multiple calendars through the	Pg. 589-590 E-mail Technologies
use of subscriptions and sharing.	Pg. 590-593 E-mail Account Settings
d. Differentiate between intranet and internet.	Pg. 593-598 Appropriate E-mail Use
e. Demonstrate the use of various Web 2.0 tools:	Pg. 599-603 Managing E-mail Communication
1. Blogs, wikis, and forums	Pg. 609-615 Communication Tools
2. VOIP, video, and phone conferencing	Pg. 613 Streaming Media
3. Screen sharing	Pg. 616-617 Online Calendars
4. Video, live, and audio streaming including using	Pg. 619-623 Social Media
various devices;	Pg. 623-626 Online Communication
f. Differentiate between streaming and downloading	Pg. 626-628 Cell Phone Use
files.	Pg. 628-630 Collaboration
g. Describe how electronic communication works and	Pg. 630 Learning Management Systems
how to communicate using electronic mail, social	Application:
networks, and other communication methods.	Pg. 592-593 Hands-On Example 15.1.1
	Pg. 598-599 Hands-On Example 15.1.2
	Pg. 604 Check Your Understanding #1-5
	Pg. 610-611 Hands-On Example 15.2.1
	Pg. 612-613 Hands-On Example 15.2.2
	Pg. 615-616 Hands-On Example 15.2.3
4. Obtaining Mobile Apps	Instruction:
a. Evaluate processes for obtaining and/or purchasing	Pg. 113-123 Application Software
apps.	Application:
b. Identify different app genres, e.g. productivity,	Pg.117-118 Hands-On Example 3.3.2
reference, content, creation, social media, music, and	Pg. 120-121 Hands-On Example 3.3.3
health.	



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c. Analyze strengths and limitations of apps and	
applications in regards to compatibility, productivity,	
and appropriate device usage.	