



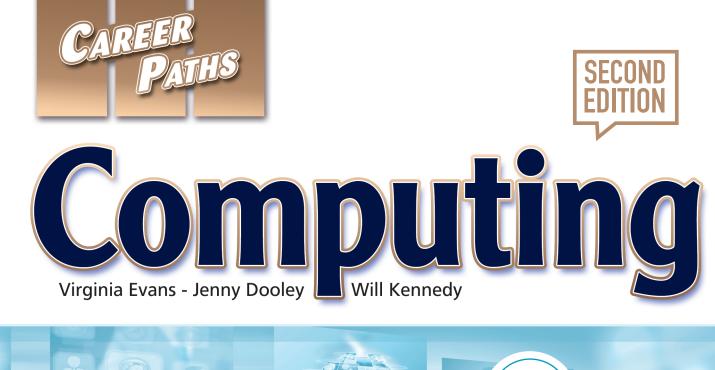


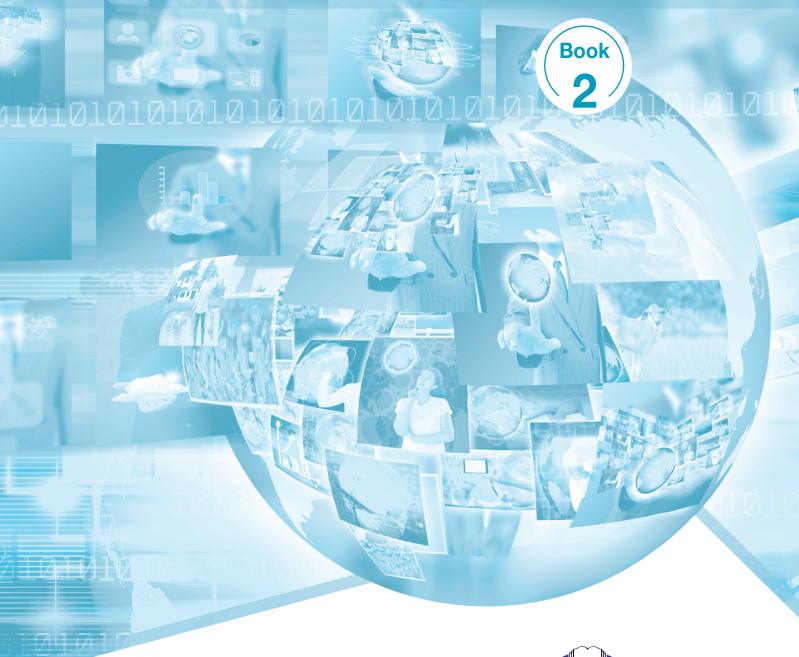
Scope and Sequence

Unit	Торіс	Reading context	Vocabulary	Function
1	Types of Computers	Magazine article	computer, desktop computer, laptop, notebook, personal computer, portable, processing power, server, tablet, workstation	Making a suggestion
2	Monitors	Article	aspect ratio, contrast, display, HD, LCD, LED, monitor, resolution, response time, screen	Making comparisons
3	Keyboards	Blog post	Alt key, Caps Lock, Control key, diacritical mark, function key, keyboard, numeric keypad, QWERTY, Shift key, type	Asking about knowledge
4	Mice	Product listing	ball mouse, click, button, cordless, laser mouse, LED mouse, mouse, scroll wheel, scrolling, USB	Making a recommendation
5	Inside the Computer	Magazine article	case, CPU, disk drive, fan, hard drive, heat sink, motherboard, optical drive, port, power supply, processor, removable drive, USB port	Describing a problem
6	Data Storage Devices	Advertisement	capacity, flash drive, GB, memory, portable hard drive, solid state drive, SSD (Solid State Drive), TB, thumb drive	Asking for a recommendation
7	Printers	Email	cartridge, dpi (dots per inch), ink, inkjet printer, laser printer, ppm (pages per minute), print, printer, toner, two-sided	Agreeing
8	Scanners	Article	all-in-one, automatic document feeder, color depth, copy, flatbed, optical resolution, ppi (pixels per inch), scan, scan area, scanner	Describing features
9	Cameras	Advertisement	compression, digital camera, digital zoom, JPEG, megapixel, optical zoom, pixel count, SD card, white balance	Asking for an opinion
10	Smartphones	User manual	app, built-in, cell phone, feature, GPS, MP3 player, coverage, smartphone, sync, touchscreen	Giving instructions
11	The User Interface	User guide	cursor, desktop, dropdown menu, folder, GUI (Graphical User Interface), icon, organize, right-click, select, user	Asking for help
12	Email 1	Article	address book, drafts folder, email, email address, email client, inbox, junk mail, sent folder, trash folder, webmail	Explaining confusion
13	Email 2	Email	attach, Bcc, Cc, create, forward, recipient, reply, reply all, subject	Making an apology
14	Email 3	Article	attachment, bounce back, configure, domain name, exceed, maximum, POP3 server, SMTP server, spam, time out, typo	Identifying a problem
15	Instant Messaging	Email	available, busy, chat, contact list, file transfer, IM (Instant Messaging), one-to-one, provider, real-time, screen name	Expressing concern

Table of Contents

Unit 1 – Types of Computers	4
Unit 2 – Monitors	6
Unit 3 – Keyboards	8
Unit 4 – Mice	0
Unit 5 – Inside the Computer 1	2
Unit 6 – Data Storage Devices 14	4
Unit 7 – Printers 1	6
Unit 8 – Scanners 1	8
Unit 9 – Cameras	0
Unit 10 – Smartphones 2	2
Unit 11 – The User Interface 24	4
Unit 12 – Email 1	6
Unit 13 – Email 2	8
Unit 14 – Email 3	0
Unit 15 – Instant Messaging 3	2
Glossary	4





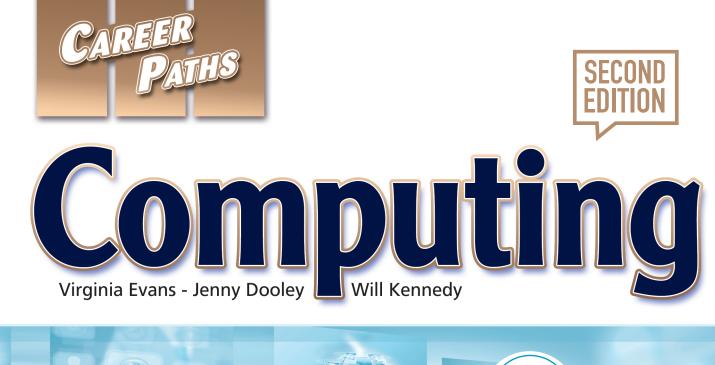


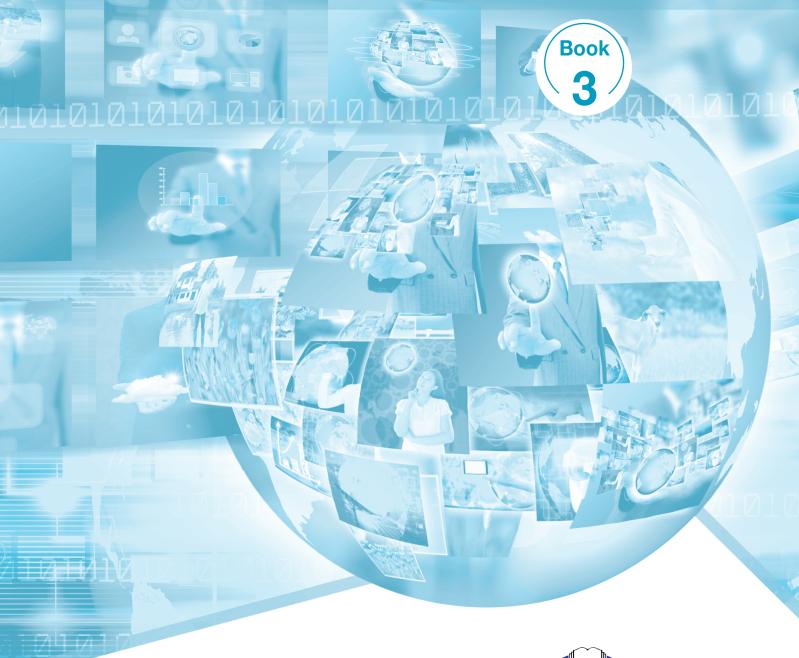
Scope and Sequence

Unit	Торіс	Reading context	Vocabulary	Function
1	Word Processing: Uses	Guide	agenda, blank, business card, calendar, create, document, memo, report, résumé, template, word processing	Expressing a lack of knowledge
2	Word Processing: Actions	Manual	close, copy, cut, delete, edit, open, paste, redo, save, save as, select, undo	Changing your mind
3	Word Processing: Formatting	Memo	bold, bullet, center, column, font, format, indent, italic, margin, spacing, spell check, underline	Making a suggestion
4	Spreadsheets: Uses	Email	analyze, balance sheet, budget, data, database, equation, function, sales invoice, spreadsheet, timecard, track, workbook	Asking about a general opinion
5	Spreadsheets: Actions	Webpage	calculate, chart, clear contents, clear formats, equal sign, filter out, formula, formula bar, insert, sort, table, value	Clarifying instructions
6	Spreadsheets: Formatting	Troubleshooting guide	border, cell, column, lock, merge, printing area, row, set, shading, shrink to fit, split, wrap	Expressing opinion
7	Desktop Publishing 1	Advertisement	clip art, comprehensive layout, design, DTP (Desktop Publishing), online, on-screen, page layout, in print, publish, WYSIWYG	Offering assistance
8	Desktop Publishing 2	Note	A4, convert, find/change, item style, kerning, leading, letter, master page, paper size, PDF, typography	Describing difficulty
9	Image and Design 1	Advice column	blurry, design, file format, layer, lossless compression, lossy compression, photo, pixel, raster graphic, sharpening, scaling, thumbnail, vector graphic	Asking about knowledge
10	Image and Design 2	Instructions	blur, clone, crop, recompose, red eye, resize, retouch, sharpness, stamp, straighten, trim	Politely disagreeing
11	Web Design and Web Development	Course descriptions	appearance, coding, content, CSS, functionality, navigation, usability, visibility, web design, web development	Expressing confusion
12	Web Browsing: Parts	User's guide	add-on, address bar, browser, bookmark, cookie, history, home page, search bar, tab, URL, webpage, website	Giving instructions
13	Web Browsing: Actions	Webpage	bookmark, disable, download, enable, enter, hang, link, load, log in, log out, refresh	Asking for help
14	Video Conferencing	Advertisement	audio input, bandwidth, codec, echo cancellation, face-to-face, multipoint, output device, video bridge, video conference, video conference system, video input	Identifying a problem
15	Social Media	Email	advertise, blog, forum, friend, group, handle, link, profile, social media, social networking, trend	Making a prediction

Table of Contents

Unit 1 – Word Processing: Uses 4
Unit 2 – Word Processing: Actions
Unit 3 – Word Processing: Formatting 8
Unit 4 – Spreadsheets: Uses 10
Unit 5 – Spreadsheets: Actions 12
Unit 6 – Spreadsheets: Formatting 14
Unit 7 – Desktop Publishing 1 16
Unit 8 – Desktop Publishing 2
Unit 9 – Image and Design 1 20
Unit 10 – Image and Design 2 22
Unit 11 – Web Design and Web Development 24
Unit 12 – Web Browsing: Parts 26
Unit 13 – Web Browsing: Actions 28
Unit 14 – Video Conferencing 30
Unit 15 – Social Media 32
Glossary







Scope and Sequence

Unit	Торіс	Reading context	Vocabulary	Function
1	Operating Systems	Letter	Apple [®] , color matching, customize, hardware, Linux [®] , MacOS, Mac [®] , Microsoft [®] , OS X [®] , prepress, processing speed, software compatible, upgrade, vulnerable, Windows [®]	Justifying a decision
2	Media	Magazine article	download, DVD, HD, media player, MP3, MPEG, multimedia, pause, play, stop, stream, upload	Asking about frequency
3	Networking: Devices and Equipment	Product listing	access point, antenna, cable modem, CAT-5, hub, networking, router, switch, wireless router, wireless network adapter	Asking for a favor
4	Networking: Types of Networks	Webpage	broadband, cable Internet, DNS, DSL, Ethernet, hotspot, ISP, LAN, VPN, Wi-Fi [®] , WLAN	Discussing options
5	Networks: Troubleshooting	Webpage	cache, clear, cycle, detect, disconnect, IP address, log in, password, plug in, renew, signal, TCP/IP	Expressing certainty
6	Viruses	Magazine article	host, embed, infect, overwriting virus, piggyback, replicate, resident extension, resident virus, Trojan horse, virus, worm	Expressing concern
7	Internet Crime	Email	backdoor, credit card, fraud, hack, hacker, identity theft, keylogger, malware, pharming, phishing, pretexting, information security, spyware	Stressing importance
8	Anti-virus Software	Product description	anti-virus software, backup, block, detect, false negative, false positive, pop-up, quarantine, removal, rootkit, update, webpage analysis	Making a recommendation
9	Firewalls	FAQs	access, default, deny, exception, firewall, incoming, packet filtering, permission, permit, settings, traffic, unauthorized	Expressing confusion
10	Online Banking	Webpage	account activity, account number, bill pay, direct deposit, electronic funds transfer, electronic statement, monitor, online banking, payroll, PIN, Site Key, SSL connection	Clarifying information
11	Telecommuting and Remote Access	Email	Basecamp [™] , centralize, conference call, Dropbox [®] , file sharing, message board, remote access, Skype [™] , Zoom [®] , Google Meet [®] , Microsoft Teams [®] , telecommute, web-based	Giving reassurance
12	Careers in Computing	Magazine article	accounting, administrative assistant, computer literacy, computer science, data entry, digital marketer, IT, management, programmer, sales, sosial media manager, software engineer, system administrator, tech support, web developer	Asking for more information
13	Cloud Computing: Types of Clouds	Magazine article	back-end, cloud computing, community cloud, elasticity, front-end, hybrid cloud, metered fee, private cloud, public cloud, scalability	Giving an example
14	Cloud Computing: SaaS	Webpage	application, deployment, distribution, hosted application management, install, pay-as-you-go, SaaS (Software as a Service), software license, software on demand, software suite	Expressing opinion
15	Cloud Computing: IaaS and PaaS	Advertisement	bandwidth, CDN (Content Delivery Network), computing platform, IaaS (Infrastructure as a Service), infrastructure, outsource, PaaS (Platform as a Service), solution stack, storage, switch, utility computing	Making an admission

Table of Contents

Unit 1 – Operating Systems 4
Unit 2 – Media
Unit 3 – Networking: Devices and Equipment 8
Unit 4 – Networking: Types of Networks 10
Unit 5 – Networks: Troubleshooting 12
Unit 6 – Viruses
Unit 7 – Internet Crime
Unit 8 – Anti-virus Software
Unit 9 – Firewalls
Unit 10 – Online Banking 22
Unit 11 – Telecommuting and Remote Access 24
Unit 12 – Careers in Computing 26
Unit 13 – Cloud Computing: Types of Clouds 28
Unit 14 – Cloud Computing: SaaS 30
Unit 15 – Cloud Computing: IaaS and PaaS 32
Glossary

Operating Systems



Dear Ms. Jones,

You asked in the meeting whether we should purchase Mac computers or PCs that run Microsoft Windows or Linux. I feel that we would be better off investing in Mac computers.

We are currently using PCs and have had many issues with them. I have to **upgrade** the Windows operating system with patches, which is time-consuming. While PCs are highly software compatible, they are also more vulnerable to attack, so we need expensive security software.

One advantage to PCs is the vast availability of hardware choices. It might be easier to customize the computers to meet individual employee needs.

But Macs still meet our needs better than PCs. The **macOS** needs little maintenance. Since our company develops architectural designs, we need computers with good graphics. Apple has outstanding prepress and color matching capability, as well as great processing speed.

One main drawback of replacing our current PCs with Macs is that of training. Currently, all of our employees use the Windows operating system. If we purchase Apple computers, we would need to teach our employees how to use macOS.

I hope this helps guide your decision.

Simon Jacobs IT Support

2 Read the letter. Then, mark the following statements as true (T) or false (F).

- 1 ___ The purpose of the email is to recommend what kind of computers to purchase.
- **2** PCs are less vulnerable to attack than Mac computers.
- **3** ____ Apple computers have outstanding color matching capability.

Vocabulary

3 Match the words or phrases (1-8) with the definitions (A-H).

- 1 ___ Mac 5 hardware
- 2 Windows
- 6 ____ software compatible
- 3 macOS
 - 7 ___ processing speed
- 4 Linux 8 vulnerable
- A a computing device
- **B** being able to run different programs
- **C** an operating system developed by Apple
- **D** an operating system that uses open source software
- E a measure of how fast a computer operates
- F an operating system developed by Microsoft
- **G** a computer developed by Apple
- H open to attack

4 Read the sentence pairs. Choose which word or phrase best fits each blank.

- 1 customize / upgrade
 - A The IT department plans to ______ every computer with a new version of the operating system.
 - **B** Users cannot ______ the drives and cards in Macs, but they can do so with PCs.
- 2 color matching / prepress
 - A I have a ______ file ready for printing.
 - **B** The _____ was poor; the image looked better on the screen.

5 Solution Listen to and read the letter again. What does the man recommend and why?

Listening

- 6 Solution Listen to a conversation between an IT employee and a manager. Mark the following statements as true (T) or false (F).
 - 1 ____ The company will upgrade the current operating systems on the computers.
 - **2** ____ The company's design software only runs on Windows.
 - **3** ____ The woman accepted the man's recommendation.

7 😚 Listen again and complete the conversation.

Manager:	We're going to buy 1		
IT Employee:	Oh really? Why?		
Manager:	We found that most of our computers are less than two years old. We only need 2 a few.		
IT Employee:	I see. But we'll still 3 security software.		
Manager:	We 4 all of the computers to the newest Windows version. It's much less vulnerable.		
IT Employee:	5 , but since we're a design firm, I thought Macs would be better.		
Manager:	Not necessarily. Besides, the software we use is 6 with Windows.		
IT Employee:	Oh, it is? Well, Macs can run Windows.		

Speaking

8 With a partner, act out the roles below based on Task 7. Then, switch roles.

USE LANGUAGE SUCH AS:

What did you decide? We found ... That's true, but since I thought ...

Student A: You are a manager. Talk to Student B about:

- upgrading PCs or buying Macs
- what you intend to do
- the benefits of your decision

Student B: You are an employee. Talk to Student A about what the company is going to do.

Writing

Use the letter and the conversation from Task 8 to write an email about operating systems. Include: the benefits of PCs, the benefits of Macs, and which you recommend.



Windows 10

Glossary

processing speed [N-UNCOUNT-U1] **Processing speed** is a measure of how quickly a computer can process information. **programmer** [N-COUNT-U12] A **programmer** is a person who writes computer programs.

public cloud [N-COUNT-U13] A public cloud is a cloud system which provides services to the general public.

quarantine [V-T-U8] To quarantine a file or program is to isolate it from other files to prevent the spread of malware.

remote access [N-UNCOUNT-U11] **Remote access** is the ability to access programs, networks, and data from a different location or computer than where they are stored.

removal [N-UNCOUNT-U8] Removal is the process of eliminating or deleting something.

renew [V-T-U5] To renew is to make something like new again.

- replicate [V-T-U6] To replicate is to copy.
- **resident extension** [N-COUNT-U6] A **resident extension** is an add-on to a computer virus that causes it to become part of the host computer's operating system.

resident virus [N-COUNT-U6] A resident virus is a type of virus that is not active until triggered by a certain event.

rootkit [N-COUNT-U8] A **rootkit** is software that permits a hacker to obtain special access to a system while masking that access from other users.

router [N-COUNT-U3] A router is a device that forwards information between computer networks.

- SaaS (Software as a Service) [N-UNCOUNT-U14] SaaS (Software as a Service) is a model in which software and the associated data are hosted by a provider and accessed over a network.
- sales [N-PLURAL-U12] Sales is the field dealing with selling products.
- scalability [N-UNCOUNT-U13] Scalability is the ability of a system to accommodate increasing amounts of information in the form of data or processing.
- settings [N-PLURAL-U9] Settings are any values data at which some feature of a computer or computer program can be placed.
- **signal** [N-COUNT-U5] A **signal** in electronics is a wave or field used to communicate information from a source to a recipient device.

Site Key [N-COUNT-U10] A Site Key is an Internet security tool that confirms the validity of a website.

Skype [N-UNCOUNT-U11] **Skype** is a software application that allows people to call other computers and have video conferences.

social media manager [N-COUNT-U12] A **social media manager** is someone who manages a company's online **software compatible** [ADJ-U1] **Software compatible** is being able to run multiple types of software on a system.

software engineer [N-COUNT-U12] A software engineer is an engineer that writes, tests, and evaluates software.

- **software license** [N-COUNT-U14] A **software license** is a legal agreement which grants the right to use a program to a buyer.
- **software on demand** [N-UNCOUNT-U14] **Software on demand** is a model in which software is rented from a provider as it is needed.
- software suite [N-COUNT-U14] A software suite is a collection of related programs.
- software [N-UNCOUNT-U14] Software is the collection of programs used by a computer.

solution stack [N-COUNT-U15] A **solution stack** is a group of software components required to provide a product or service.

presence through Facebook, Twitter, Instagram etc.

- **spyware** [N-UNCOUNT-U7] **Spyware** is the general term for destructive programs that infect a computer for the purposes of financial gain.
- SSL connection [N-COUNT-U10] An SSL connection is a secure connection between two servers.

stop [V-T-U2] To stop an audio or video file is to end its playback without the option to resume.



Computing

Career Paths: Computing 2nd Edition is a new educational resource for all professionals who want to improve their English communication regarding computing. Incorporating career-specific vocabulary and contexts, each unit offers step-by-step instruction that immerses students in the four key language components: reading, listening, speaking, and writing. *Career Paths: Computing 2nd Edition* addresses topics including computer accessories, common programs, operating systems, online communication, and cloud computing.

The series is organized into three levels of difficulty and offers over 500 vocabulary terms and phrases. Every unit includes a test of reading comprehension, vocabulary, and listening skills, and leads students through written and oral production.

Included Features:

• A variety of realistic reading passages

SECOND Edition

- Career-specific dialogues
- · 45 reading and listening comprehension checks
- · Over 400 vocabulary terms and phrases
- · Guided speaking and writing exercises
- · Full answer key and audio scripts
- · Complete glossary of terms and phrases

The Teacher's Guide contains detailed lesson plans, a full answer key and audio scripts.

The audio CDs (downloadable) contain all recorded material. contain all recorded material.

Express

The **Digital** version of the book contains subject specific videos, instant feedback on all tasks and progress monitoring reports.



