

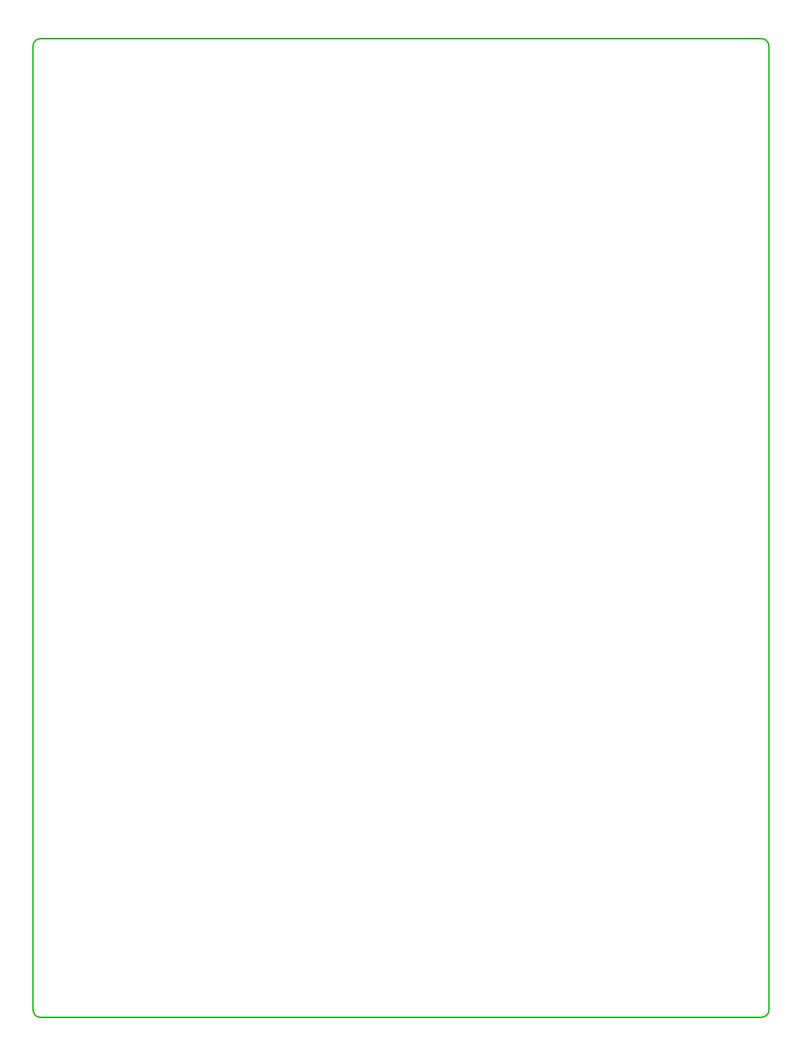
Programming WORDS TP BOOKLET





English Opens Doors Program

Division de Educación General - Mineduc







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100 TOP

Programming

WORDS TP BOOKLET

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Index

Get to know your booklet Glossary	6 10
Unit I: Programming and database	16
Lesson I: Listening comprehension	17
Lesson II: Reading comprehension	19
Lesson III: Writing	21
Lesson IV: Speaking	23
Lesson V: Project	25
Unit II: Installation and configuration of	
computer equipment	28
Lesson I: Reading comprehension	29
Lesson II: Listening comprehension	32
Lesson III: Speaking	34
Lesson IV: Writing	36
Lesson V: Project	38
Unit III: User support and productivity	39
Lesson I: Listening comprehension	40
Lesson II: Reading comprehension	41
Lesson III: Speaking	43
Lesson IV: Writing	45
Lesson V: Project	47
Unit IV: Operating Systems	48
Lesson I: Listening comprehension	49
Lesson II: Reading comprehension	51
Lesson III: Speaking	53
Lesson IV: Writing	55
Lesson V: Project	57
Appendix	60

Get to know your booklet

LESSONS











Listening

Reading

Speaking

Writing

Project

ACTIVITIES







In pairs



Group Work



Think & discuss

ACTIONS



Read



Write



Watch a video



Speak



Listen



¡Bienvenido! Welcome!

ES

A continuación, te presentamos un recurso elaborado para avanzar en uno de nuestros principales objetivos: mejorar la calidad y fortalecer la enseñanza Técnico-Profesional en el país.

La creación de este Booklet responde a la importancia de aprender el idioma inglés en el contexto de cada especialidad técnica, de manera que en el futuro puedas acceder a mayores oportunidades de especialización y en el mundo laboral.

Es por esta razón que creamos este recurso didáctico, donde proponemos tanto a docentes como estudiantes, las 100 palabras más utilizadas en cada especialidad aplicadas en contextos específicos, fundamentales para el dominio del idioma.

Dado que en el mundo de hoy es importante entregar todas las opciones para favorecer el aprendizaje del inglés, el trabajo continuo de las actividades que ofrece cada unidad te permitirá desarrollar habilidades lingüísticas como la lectura, audición, expresión escrita y oral, además de trabajar colaborativamente en los proyectos al término de cada unidad.

Esperamos que este 100 Top Words Booklet sea una contribución para el aprendizaje del idioma en la especialidad que has elegido.

EN

We are pleased to present you with this resource, which was created to advance one of our primary objectives- improving and strengthening the quality of technical professional education in Chile

The creation of this booklet responds to the importance of learning the English language in the specific context of each technical specialty and aims to provide you with access to greater opportunities in your area of concentration, and in the labor market in general.

With that in mind we have created this educational resource, through which we propose to teachers and students alike – the 100 most commonly used words for specific contexts, fundamental to language mastery in each area of technical specialization.

Given the current importance of providing all possible opportunities to foment English language acquisition, the successive completion of the activities offered in each unit will facilitate the development of your linguistic abilities, including reading comprehension, written and oral expression, as well in collaborative learning projects provided at the end of each unit.

We hope that the "100 Top Words" Booklet will contribute to your English language learning, in the technical professional concentration that you have chosen.

Tus comentarios nos importan: escríbenos a TPenglish@mineduc.cl

UNIT OVERVIEW OF OBJETIVES AND MAIN VOCABULARY				
UNIT	OBJECTIVE	VOCABULARY		
Unit I Programming and database	L I: Design an algorithm based on the features presented in a video.	Algorithm (n) - task (n) programming (n) - technology (n) - steps (n) - function (v)		
	LII: Develop a flowchart following the instructions from a reading.	Flowchart (n) - process (n) - decision- making (n) - arrow (n) - print (v) - read (v) input/output (n)		
	LIII: Write an opinion from a piece of reading about 'data'.	Server (n) - user (n) - record (n) - data (n) - take down (v)		
	LIV: Present a modified dialogue regarding different database needs.	Database (n) - issue (n) - customer (n) - that's great (exp) - exactly! (exp) - no problem (exp) - don't worry (exp)		
	Project: Invent a solution for the needs of a specific scenario.	Include the vocabulary from previous lessons.		
Unit II Installation and configuration	LI: Create a poster based on a text about hardware & software.	Software (n) - hardware (n) - components (n) - operating system (n) - hard disk (n) - CPU (n) - RAM (n) - keyboard (n) - motherboard (n) - monitor (n) - video card (n) - case (n)		
of computer equipment	LII: Show support for an operating system using information from a video.	OS (n) -apps (n) -interact (v) - install (v) - compatible (adj) - language (n) - mobile device (n)		
	LIII: Present a modified dialogue taking place in a tech repair.	Take a look (v) - repair (v) - appreciate (v) - odd (adj) - sort out (v) - issue (n) - run (v) - overheat (v)		
	LIV: Reply to an email advising on computers as tech support.	Savvy (adj) - advice (n) - advise (v)- broken (adj) - fix (v) - features (n)		
	Project: Create a computer guidebook based on the idea of an ideal computer.	Include the vocabulary from previous lessons.		

UNIT OVERVIEW OF OBJETIVES AND MAIN VOCABULARY				
UNIT	OBJECTIVE	VOCABULARY		
Unit III User support and productivity	LI: Speak about the importance of communication in user support situations based on a video.	Support (n) – support (v) – IT (n) – end- users (n) – communication (n) – back up (v)		
,	LII: Create a comic exemplifying the benefits of an office automation system read on a text.	Office automation system (n) – task (n) – word processing (n) – accomplish (v) – collect (v) – store (v) – manage (v) – manipulate (v)		
	LIII: Speak about pieces of software that increase productivity.	User-friendly (adj) - tech-person (n) - compatible (adj) - productivity (n) - update (v) - backup (n) - install (v)		
	LIV: Provide online support by writing tips on how to increase productivity.	Assistance (n) – tips (n) – increase (v) – online services (n)		
	LV & LVI: Help a member of the community by providing personalized support.	Include the vocabulary from previous lessons		
Unit IV Operating Systems	LI: Speak about the benefits and characteristics of open and closed source software/OS based on a video.	Open source software (n) - closed source software (n) - free (adj) - performance (n) - source code (n) - access (n)		
	LII: Provide support to users in regard to the frequently asked questions about upgrading an OS.	Upgrade (v) – provide (v) – support (v) – version (n) – release (v) – run (v) – vulnerable (adj) – discontinue (v)		
	LIII: Survey the class regarding their experiences and preferences of operating systems.	Survey (v) - survey (n) - satisfied (adj) - experience (n)		
	LIV: Create a tutorial on how to install an operating system.	Brand new (adj) - restart (v) - insert (v) - hold (v) - flash drive (n) - turn off (v)		
	Project: Recommend an operating system and describe its features on a video.	Include the vocabulary from previous lessons		
Vocabulary Extension	Vocabulary: Spot the bugs from different algorithms.	Remove (v) - behave (v) - debug (v) - produces (v) -solve (v) - spot (v)		

Programming Booklet Glossary



A	1. Accomplish (v)	Put in effect; to gain with effort.
	2. Advice (n)	A proposal for an appropriate course of action.
	3. Appreciate (v)	Increase the value of; gain in value; be fully aware of; realize
		fully; recognize with gratitude; be grateful for; hold dear.
	4. Access (n)	The act of approaching or entering; a way of entering or
		leaving; (computer science) the operation of reading or writing
		stored information.
	5. Advise (v)	Inform (somebody) of something; give advice to; make a
		proposal, declare a plan for something.
	6. Algorithm (n)	A precise rule (or set of rules) specifying how to solve some
		problem.
	7. App (n)	An application, especially as downloaded by a user to a
		mobile device.
	8. Assistance (n)	The activity of contributing to the fulfillment of a need.
(B)	9. Backup (n)	(computer science) A copy of a file or directory on a separate
		storage device.
	10. Back up (v)	Copy computer information.
	11. Broken (adj)	Physically and forcibly separated into pieces or cracked or
		split.
(c)	12. Case (n)	A computer case, also known as a computer chassis, tower,
		system unit, CPU (when referring to the case as a whole rather
		than the processor) usually excluding the display, keyboard,
	47.0 !! ()	and mouse.
	13. Collect (v)	Bring or gather together (a number of things).
	14. Compatible (adj)	Able to exist and perform in harmonious or agreeable combination.
	15. Chip (n)	A small piece of semiconducting material (usually silicon) on
	is. Chip (ii)	which an integrated circuit is embedded.
	16. CPU (n)	(computer science) The part of a computer (a microprocessor
	10. CFO (11)	chip) that does most of the data processing.
	17. Closed source Software (n)	A software that is the intellectual property of a specific
	in closed source continue (i.i)	company. For example, 'Office' is a closed source application
		belonging to Microsoft.
	18. Communication (n)	Something that is communicated by or to or between people
	,	or groups; the activity of communicating; the activity of
		conveying information; a connection allowing access between
		persons or places.
	19. Customer (n)	Someone who pays for goods or services.
(D)	20. Data (n)	A collection of facts from which conclusions may be drawn.
	21. Database (n)	An organized body of related information.
	22. Decision-making (n)	The cognitive process of reaching a decision.
	23. Don't worry (phrase)	Indicates to the interlocutor not to worry about something.

E	24. Exactly (adv)	Indicating exactness or preciseness; in a precise manner; just as it should be.
	25. End-user (n)	The ultimate user for which something is intended.
(F)	26. Feature (n)	A prominent aspect of something.
(+)	27. Fix (v)	Make ready or suitable or equip in advance for a particular
	27. FIX (V)	purpose or for some use, event, etc.
	28. Flowchart (n)	A diagram of the sequence of operations in a computer
	20. Flowchart (II)	program or an accounting system.
	29. Function (v)	Perform as expected when applied; perform duties attached
	29. Function (V)	to a particular office or place or function; serve a purpose,
		role, or function.
	30. Gather (v)	Come together; assemble or accumulate.
		-
(1)	31. Hard disk (n)	A rigid non-removable magnetic disk with a large data
	32. Hardware (n)	storage capacity.
	32. naraware (11)	(computer science) The mechanical, magnetic, electronic, and electrical components making up a computer system;
		instrumentalities (tools or implements) made of metal.
	33. Help desk (n)	A service providing information and support to computer
	33. neip desk (II)	users, especially within a company.
\bigcirc	34. Input (n)	A component of production; signal going into an electronic
\bigcirc	34. input (ii)	system.
	35. Input (v)	Enter (data or a program) into a computer.
	36. Increase (n)	A process of becoming larger or longer or more numerous or
	oo. increase (H)	more important; a quantity that is added.
	37. Install (v)	Set up for use; place; put into an office or a position.
	38. Issue (n)	The act of providing an item for general use or for official
	50. 1350e (11)	purposes (usually in quantity); the act of issuing printed
		materials.
	39. IT (n)	The branch of engineering that deals with the use of
	77.11 (11)	computers and telecommunications to retrieve and store and
		transmit information.
	40. Interact (v)	Act together or towards others or with others.
	41. Interface (n)	A connection between two pieces of electronic equipment, or
	(1.1)	between a person and a computer.
	42. ICT (abbreviation)	Information and Communication Technology.
(K)	43. Keyboard (n)	Device consisting of a set of keys on a piano or organ or
	,	typewriter or computer.
(L)	44. LAN (abbreviation)	Local Area Network.
<u> </u>	45. Language (n)	A systematic means of communicating by the use of sounds
	- 3- -	or conventional symbols.
M	46. Manage (v)	Be in charge of, act on, or dispose of; watch and direct; be
\cdot	· · · · · · · · · · · · · · · · · · ·	successful; achieve a goal.

47. Manipulate (v) Treat manually, as	with massage, for therapeutic purposes;
hold something in	one's hands and move it.
	ting device such as a smartphone or tablet
computer.	
	ssential parts of a computer system. It holds
together many of t	the crucial components of a computer,
including the cent	ral processing unit (CPU), memory and
connectors for inp	ut and output devices.
50. Monitor (n) Display produced	by a device that takes signals and displays
them on a television	on screen or a computer monitor.
N 51. Network (n) Defined as a group	of two or more computer systems linked
together.	
52. No problem (expression) Used to express or	ne's agreement.
(o) 53. Output (n) Terminal at which	a component, circuit or piece of equipment
delivers current, vo	oltage or power.
54. Odd (adj) Not easily explained	ed.
55. Office	
automation system (n) The varied compu	ter machinery and software used to digitally
create, collect, sto	re, manipulate, and relay office information
needed for accom	plishing basic tasks.
56. Online service (n) It refers to any info	rmation and services provided over the
Internet.	
57. Open Source Software (n) OSS is any compu	ter software that's distributed with its
source code availa	ıble for modification.
58. Operating system (OS) (n) (computer science) Software that controls the execution of
	ns and may provide various services.
	ake something become too hot.
	complishment; the act of performing;
of doing somethin	g successfully; using knowledge as
distinguished from	merely possessing it.
_	g text or pictures, especially one linked to a
computer.	
·	e of action intended to achieve a result.
	g productive or having the power to
produce.	
·	ce of instructions to enable the computer
to do something.	μ
65. Provide (v) Give.	
	g that is written or printed; look at, interpret,
	omething that is written or printed; interpret
	obtain data from magnetic tapes; subject;
interpret somethin	
interpret somethin	g a contain way.

	67. Record (n)	A compilation of the known facts regarding something or
		someone. Anything (such as a document or a phonograph
		record or a photograph) providing permanent evidence of or
		information about past events.
	68. Record (v)	Register electronically; make a record of; set down in
		permanent form.
	69. RAM (n)	Random Access Memory The most common computer
		memory which can be used by programs to perform necessary
		tasks while the computer is on; an integrated circuit memory
		chip allows information to be stored or accessed in any order
		and all storage locations are equally accessible.
	70. Release (n)	A process that liberates or discharges something; the act of
		liberating someone or something; the act of allowing a fluid to
		escape.
	71. Repair (n)	The act of putting something in working order again.
	72. Run (v)	Be operating, running or functioning; carry out.
(s)	73. Savvy (adj)	Having common sense and good judgement; intelligent.
	74. Server (n)	(computer science) A computer that provides client stations
		with access to files and printers as shared resources to a
		computer network.
	75. Set up (v)	To make a piece of equipment ready for use.
	76. Sockets (n)	One endpoint of a two-way communication link. between two
		programs running on the network.
	77. Software (n)	(computer science) Written programs or procedures or rules
		and associated documentation pertaining to the operation of
		a computer system and that are stored in read/write memory.
	78. Source code (n)	Text listing of commands to be compiled or assembled into an
		executable computer program.
	79. Steps (n)	The course along which a person has walked or is walking in; a
		flight of stairs or a flight of steps.
	80. Store (n)	A quantity or supply of something kept for use as needed.
	81. Sort out(v)	Make arrangements; deal with something successfully; organize things.
	82. Support (n)	Any device that bears the weight of another thing; supporting
		structure that holds up or provides a foundation.
	83. Support (v)	Support materially or financially; give moral or psychological
		support, aid, or courage to; establish or strengthen as with
		new evidence or facts; carry the weight of; be behind; approve
		of; support with evidence or authority or make more certain or
		confirm.
	84. Switch (n)	A small device, usually pushed up or down with your finger,
		that controls and turns on or off an electric current.

T	85. Take a look at (phrase)	Turn your attention to, examine.
	86. Take down (v)	The removal of a website, web page, or file from the Internet,
		typically in response to a formal request.
	87. Task (n)	A specific piece of work required to be done as a duty or
		for a specific fee; any piece of work that is undertaken or
		attempted.
	88. Technology (n)	The practical application of science to commerce or industry;
		the discipline dealing with the art or science of applying
		scientific knowledge to practical.
	89. That's great (phrase)	This is generally used to refer to something great that a
		person did and it's not used for things.
	90. Tech person (n)	A "techie"; a person who is very knowledgeable or enthusiastic
	()	about technology and especially high technology.
	91. Tower (n)	A computer tower is a metal chassis that holds all of the
		computer's components.
	92. Turn off (∨)	To stop a piece of equipment working temporarily by pressing
		a button or by moving.
U	93. User (n)	A person who makes use of a thing; someone who uses or
		employs something; a person who takes drugs; a person who
		uses something or someone selfishly or unethically.
	94. Update (v)	Modernize or bring up to date; bring to the latest state of
		technology; bring up to date; supply with recent information.
	95. Upgrade (v)	To improve what was old or outdated; rate higher; raise in
		value or esteem; give a promotion to or assign to a higher
	6. 11 (11)	position.
	96. User-friendly (adj.)	Easy to use.
(V)	97. Version (n)	An interpretation of a matter from a particular viewpoint.
	98. Video card (n)	An expansion card that allows the computer to send graphical
		information to a video display device such as a monitor, TV, or
	OO Wand Dua anaimm (a)	projector.
W	99. Word Processing (n)	A word processor, or word processing program, it does exactly
		what the name implies. It processes words. It also processes
	400 Mireless (mill)	paragraphs, pages, and entire papers.
	100. Wireless (adj)	Term describing communication that requires no wires
		between two communicating points.

Unit I: Programming and database

```
qual:Function(e,t,n){o(t!==e,e,t,n)}, start:f
out(function() {m.timeout&&clearTimeout(m.timeout)
e.setTimeout(function()) {p.ok(!1, "Test timed out)
jQuery&&(jQuery(" {main") html (m.fixt)
ent.createEvent2(n=document.createEvent)
vent(t,:0,:0,e.ownerDocument.createEvent)
patchEvent(n)):e.fireEvent&&e fireEvent
(e,t){},testStart:function(e)
(queue:[],moduleDone:=
```



Goals: Write an opinion from a piece of reading about 'data'.

Present a modified dialogue regarding different

database needs.

Skills: Listening, reading, speaking and writing.

Project: Finding a solution.

☆ 26 KEY WORDS

Algorithm (n) Arrow (n) Database (n) Task (n) Print (v) Issue (n) Programming (n) Read (v) Customer (n) Technology (n) input/output (n) That's great (exp) Steps (n) Server (n) Exactly! (exp) Function (v) User (n) No problem (exp) Flowchart (n) Record (n) Don't worry (exp)

Process (n) Data (n)

Decision-making (n) Take down (v)



Lesson I: Listening comprehension

BEFORE YOU LISTEN

A. Work with a partner. Look at the pictures and answer the questions:

- (a) What do you think these situations have in common?
- (b) What would happen if a person makes a mistake?







Watch a video



B. Watch the video 'Computer Science Basics: Algorithms' and check your answers to Exercise A.

WHILE YOU LISTEN

C. Complete the ideas with the words from the box. Watch the video again and check your answers.

task - algorithms - function - programming - technology

D. Order these steps (1-5) as the algorithm described in the video.

- 1) _____ Boil a pot of water.
- 2 Drain the water.
- Add the spaghetti.
- (4) _____ Serve with a sauce of your choice.
- (5) _____ Stir the spaghetti occasionally.

AFTER YOU LISTEN

E. Choose a task or activity. Write in your notebook the different steps involved in the algorithm. Follow the example from Exercise D.

F. Pair up with a classmate. One student will read the algorithm while the other student follows the instructions.



G. Discuss.



Did you complete the task successfully? Why	?
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How important is it to make clear and precise instructions?

18

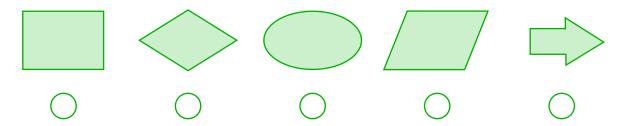


Lesson II: Reading comprehension

BEFORE YOU READ

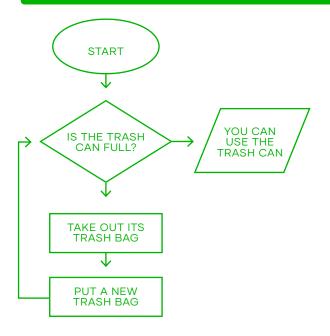
A. Before you read, match the pictures to the description of the symbols.

- This ellipse shows when a flowchart starts and ends._____
- (b) This diamond shape represents decision-making (true or false)______
- c The rectangle shows the process._____
- d The arrows represent the flow of the steps from output to input._____
- The parallelograms read or print data (input/output) ______



WHILE YOU READ

B. Look at the flowchart and read the text.



- A flowchart is a graphical representation of an algorithm or a problem-solving process. The visualization of algorithms helps external people understand how your program will work.
- First, we begin with the start's oval.
 Then, you follow the arrows as you check the true/false diamond statements based on the data.
- The flowchart to the left represents a simplified version of a program for a robotic trash can. This is a visual method to understand the decisions the robot will make.

AFTER YOU READ

C. Mark the ideas true(T) or false (F).

- a T_____ F____ A flowchart only has words
- b T____F___The steps' shapes are important
- c T____F___To read the flowchart you need to follow the arrows
- **T**_____F___The program will print a message if the trash can is full
- (e) **T_____F**___The diamond symbol represents a decision-making point

D. Represent a problem-solving situation with a flowchart in pairs.



Remember to include the start and the arrows in the correct direction. Use at least one diamond for a decision (true/false statement).

E. Present it front of the class.





Lesson III: Writing

PRE-WRITING

A. Work with a partner. Read the title and discuss.

What are the consequences of having personal information online?



A huge database of Facebook users' phone numbers found online

Hundreds of millions of phone numbers linked to Facebook accounts are online. The exposed server contained more tan 419 million records over several databases on users across geographies, including 133 million records on U.S.-based Facebook users, 18 million records of users in the U.K., and another with more than 50 million records on users in Vietnam.

This is the latest security problem involving Facebook data after a series of incidents since the Cambridge Analytica scandal, which involved more than 80 million profiles showing voters' political ideas during the 2016 U.S. presidential election.

Facebook spokesperson Jay Nancarrow said "This data set is old and appears to have information obtained before we removed people's ability to find others using their phone numbers," "The dataset has been taken down", he added.

Adapted from: "A huge database of Facebook users' phone

Numbers found online", techcrunch.com on September 4, 2019



B. Read Karen's opinion on a blog. "What's your opinion about the leak?"



In my opinion, data is one of the most important things on today's world.

This is the reason why personal information should be protected from external threats.

I believe the database leak is a big problem because your privacy is compromised.

PRE-WRITING		
Answer these questions.		
. How important is data for you?		
. What's your opinion on the news?		
RAFTING		
). Write an entry for the blog in Exercise Use information from Exercise C.	se B. Give your opinion using Karen's piece as a model.	
	se B. Give your opinion using Karen's piece as a model.	Ĺ
	se B. Give your opinion using Karen's piece as a model.	
	se B. Give your opinion using Karen's piece as a model.	6
	se B. Give your opinion using Karen's piece as a model.	
	se B. Give your opinion using Karen's piece as a model.	
	se B. Give your opinion using Karen's piece as a model.	&

REVISING

E. After you write, work with a classmate. Check their entry.

- (a) Is the opinion of the writer clear?
- **(b)** Are punctuation and spelling correct?



PUBLISHING

F. Share your opinion with the class.





Lesson IV: Speaking

WARM UP



A. How can people benefit from databases? Discuss with the class.

Click here to listen



B. Complete the ideas using the expressions from the box. □) Listen to the audio and check your answers.

Sarah: I'm glad you could help me.

Fred: a) What's your business?

Sarah: It is an online bookstore.

Fred: b) ______ You sell books.

Sarah: Yes, but I am having issues with my spreadsheet. I sent a horror book

to the wrong customer!

Fred: c) ______. Let's create a database called

SarahBookstore.

Sarah: How does that work?

Fred: There will be three tables: customers, orders and <u>books</u>.

Sarah: In books I could access the genres and the author. Am I right?

Fred: d)_____

That's great - No problem

Exactly! - Don't worry

CONTROLLED PRACTICE

C. Work with a partner and practice the dialogue.



FREER PRACTICE

D. Change the underlined words in the dialogue using your own ideas or from the pictures below.







Toy store

Restaurant

Bakery







Shoe Store

WRAP UP

E. Practice the modified dialogue and present. Complete the information with your classmates' dialogues.



DATABASE'S NAME	3RD TABLE	CATEGORIES
SarahBookstore	Books	genres & author



Project: Finding a Solution

1 LOCAL SHOP ACCOUNTANT	2 PRIMARY SCHOOL TEACHER	3 NATIONAL ANIMAL RESCUE CENTER VET
"My company's electric bills are high. My employees go home and forget to turn off their computers."	"Many students arrive late to school and there is no time to register their names one by one."	"An animal rescue center is opening next week and the vets need a way to have easy access to the animals' information."

Now you know the basics of programming and database. It is time to start proposing solutions to everyday problems.

A. Work in groups of four. Read the information above and discuss these situations. As a group, identify the problem in each picture.



Picture 1			
Picture 2			
Picture 3			

B. As a group, choose one of the situations above and think of a possible solution. Answer to these questions. a) Why did you choose this issue? **b)** How many possible solutions to the same problem can you think of? **C.** Describe your final solution including aspects from the previous discussion. Use images to make your point as clear as possible. We have the challenge of solving an issue. After talking, our group chose the problem of ... We decided to solve this situation because... In our opinion, a possible answer is... The following algorithm / flowchart / database representation explains it.

Make a poster about your solut of the solution.		
Present in front of the class.		

Unit II: Installation and configuration of computer equipment





Goals: Present a modified dialogue taking place in a tech

repair. Create a computer guidebook based on the

idea of an ideal computer.

Skills: Listening, reading, speaking and writing.

Project: Computer guidebook.

☆ 33 KEY WORDS

Software (n) Case (n) Odd (adj) Hardware (n) OS (n) Sort out (v) Components (n) Apps (n) Issue (n) Operating system(n) Interact (v) Run (v) Hard disk (n) Install (v) Overheat (v) CPU (n) Compatible (adj) Savvy (adj) RAM (n) Language (n) Advice (n) Keyboard (n) Mobile device (n) Advise (v) Motherboard (n) Take a look (v) Broken (adj) Monitor (n) Repair (v) Fix (v) Video card (n) Features (n)

Appreciate (v)



Lesson I: Reading comprehension

BEFORE YOU READ

A. Before you read, match the words in the box to the definitions below. There are 2 extra terms.

Case - Hard disk - CPU - Monitor - RAM - Keyboard Motherboard - Video card

- The main circuit board that coordinates the components.

 The part of a computer that contains a screen.

 Equipment with keys that puts information into the computer.

 Where programs are put into while you are using them.

 A container or cover for most of the components of a personal computer.
- 6 _____ A magnetic disk used to store computer data permanently.

B. Look at the picture from the text. Share.

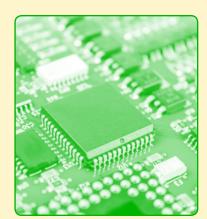
1. What do you think the text is about?
2. Are you familiar with computer architecture terms?

WHILE YOU READ

C. Read the text.

COMPLEMENTARY CONCEPTS

- 1. On the one hand, we have the **components** that make a device physically work. These elements can be divided into two categories: internal parts and external parts. The internal ones involve those elements inside the tower that store or process what a program or operating system defines, while the external describe the components externally connected to the computer to control input or output. All previous definitions refer to **hardware.**
- 2. On the other hand, we have software. It tells the hardware what to do and how to do it. We could also say software refers to computer programs, apps or operating systems (OS) that run on hardware. Hardware and software are complementary concepts. You can only interact with an app because you have a mobile phone, but having a mobile phone means nothing if the operating system is absent.



AFTER YOU READ

D. Answer these questions.

1. What is the main difference between software and hardware?
2. What are the categories of components in hardware?

3. What examples of pieces of software can you find in the text?
4. Which is more important: software or hardware? Why?

AFTER YOU READ

E. Work with a partner. Create a small poster that shows your understanding of a topic from the text. Look at the samples.



- **1.** Focus on one of your answers from Exercise D.
- 2. Use drawings or pictures as examples.
- **3.** Be as creative as possible.
- **4.** Use the table below to check the quality of your work.

Did I use	*
a title or question?	
a brief explanation/definition?	
pictures or drawings as visual support?	
correct spelling of words?	
capital letters when needed?	

F. Place your work in the classroom. Take your time to check your classmates' work.



Lesson II: Listening comprehension

BEFORE YOU LISTEN

A. Discuss with a classmate.



Have you got a favorite operating system?	

WHILE YOU LISTEN

Watch a video



B. Watch the video "Computer basics: Understanding Operating Systems" and listen to the speaker. What OS are not mentioned? Circle the names.

- 1. Ubuntu
- 2. Mac
- 3. Windows

- 4. ios
- 5. Linux
- 6. Android

C. Listen again. Mark the ideas true (T) or false (F) according to the video.

- **1. T**——People can directly communicate with their computer.
- 2. T____F___The OS is a program that helps you interact with a computer.
- **3. T**_____ F___ The OS is a complete software on its own.
- **4. T**_____ You need to pay a special price to install Windows on a new computer.
- **5. T**_____ **F**____ Mobile phones also need an OS.
- **6. T**______ **F**____ All pieces of software or apps are compatible with all the existing OS.

D. Watch the video "Most popular mobile OS 1999-2019". Look at the popularity of the different OS through the years. Answer the questions.

1. Is your mobile's OS in the video? Which one?

2. Why do you think some operating systems lost their popularity?

3. Why do you think Android is so popular?

AFTER YOU LISTEN

E. Work in teams of 3 or 4 students. Choose one OS and write a short text convincing your classmates to get it. You can create a song or give facts about the details.



Example: This is the fastest OS on the market. 70% of people prefer this OS

F. Present in front of the class. Read or sing your text. Then, select the most convincing team and explain why.

33



Lesson III: Speaking. Technical repair

A. Have you been	to a technical repail	r center? Share	your experiences w	vith the rest of the class.
			_	

Click here to listen



B. Complete the dialogue below with the words from the box. Listen to the audio and check.

take - repair - appreciate - odd - issue -sorted

Customer: Good morning.

Technician: Welcome to our **a**) _____center. How can I help you? **Customer:** ____going on with <u>my laptop.</u>

Technician: What do you mean? **Customer:** It is <u>not playing music!</u>

Technician: I see. May I **c)** a look?

Customer: Go ahead, please.

Customer: What should I do?

Technician: You should <u>change the speaker</u>.

Customer: Can you do it?

Technician: Sure. We'll have this **e)** _____ out in no time.

Customer: Oh, thank you! I really f)______it!

CONTROLLED PRACTICE

C. Work with a classmate. Practice the dialogue.

FREER PRACTICE

D. Work with a classmate. Change the underlined words using your own ideas or from the pictures below. Practice.



The computer is not running a brand
The CPU is overheating - New game
Install a better graphics card
Install a CPU cooler fan





WRAP UP

E. Act out in front of the class.



Lesson IV: Writing

Name: Henry Collins

Email: henry@openlibrary.com Subject: Art student computer

Good evening,

Contact info:

I'm looking for a new computer for my daughter. I am not particularly savvy at technology, so I was hoping you could give me some advice.

It's Helen's first year at the Digital Art program. I am unsure about the details, but she spends hours editing photos. She always complains about how slow our computer is at home. I believe that the only problem of our computer is that the CD slot is broken.

Do I need to buy a new computer, or can I fix the one at home? If my daughter needs a new computer, what are the most important features I should be asking about?

Regards, Henry Collins

PRE-WRITING

A. Read Henry's email about computers. Answer the questions.	
1. What does Henry want?	
2. What are the technical needs?	
3. What are the pros/cons of repairing the old computer or buying a new computer?	

DRAFTING

B. Write an email to Henry answering his questions. Use information from the text and include the vocabulary you've learnt in past lessons.



REVISING

C. Use the chart below to check if your email is complete.



Did I	/
add my contact info?	
include hardware/software terms?	
use information from the email to create an answer?	
write a greeting and closing sounds better in terms of parts of an email/letter?	
use correct spelling and punctuation?	
share my writing with a classmate for them to check?	



Project: Building a computer and its OS

Now that you understand the concepts of hardware, software and operating system, it is time for you to create a new computer

A. Make a group of 4 people. Talk about what your ideal computer would be like.



1. Is it a desktop or a laptop?
2. What OS does it have?
3. What components are included?

B. Create a guidebook giving details about your ideal computer. The presentation should have:

- 1. A cover page of the guidebook.
- 2. Pictures showing the names of the different internal or external components.
- **3.** A short description of the OS.
- 4. A list of apps/pieces of software you can use.
- **5.** A brief explanation of how to take care of your computer for avoiding damage to the computer.
- **C.** Practice the presentation with your group.
- **D.** Present your digital guidebook to the class.



Unit III: User support and productivity





Goals: Talk about the importance of communication in user

> support situations based on a video. Create a comic exemplifying the benefits of an office automation

system based on a text.

Skills: Listening, reading, speaking and writing.

Project: Students supporting students.

☆ 25 KEY WORDS

Support (n)

Accomplish (v)

Backup (n)

Support (v)

Collect (v)

Install (v)

IT (n)

Store (v)

Assistance (n)

End-users (n)

Manage (v)

Tips (n)

Communication (n)

Manipulate (v)

Increase (v)

Back up (v)

User-friendly (adj)

Office automation

Tech-person (n)

Compatible (adj)

System (n)

Productivity (n)

Task (n)

Word processing (n)

Update (v)

Online services (n)



Lesson I: Listening comprehension

BEFORE YOU LISTEN

A. Answer these questions with a partner.



a) How often do you help people that struggle with technology?
b) What is important when you support people?

Watch a video



B. Watch the video 'What does support mean?' Check your answers from Exercise A.

WHILE YOU LISTEN



C. Mark the statements true (T) or false (F) in the space provided.

- 1. T_____F___IT support specialists are sincere with people.
- **2. T**______ Solutions to problems are kept private from users.
- **3. T**_____F___IT support never anticipates issues.
- **4. T_____ F___** IT support specialists must not read between the lines.
- **5. T**_____ F___ Communication is essential when supporting end-users.

D. Listen again and number these statements as you hear them in the audio (1-6).

- **1.** Ensuring proper functionality of resources.
- 2. Support in its essence is honesty with the customer.
- **3.** Sometimes it means anticipating potential issues with users.
- 4. _____ Backing up our promises on the benefits of technology.
- **5.** Support is a conversation, not a transaction.
- **6.** ____ Sharing your knowledge.

AFTER YOU LISTEN

E. Work with a partner. Talk about the importance of communication skills in the field of technology. Write down a list of actions or attitudes you need to pay attention to when helping others.



Example:

Be kind to people with negative technology experiences. Always listen to the user.

1.	
8.	
9.	
10.	



Lesson II: Reading comprehension

BEFORE YOU READ

A. Before you read, match the words to their synonyms

 1
 Accomplish
 a
 administer

 2
 collect
 b
 shape

 3
 store
 c
 reach

 4
 manipulate
 d
 keep

 5
 manage
 e
 gather

WHAT EXACTLY IS AN OFFICE AUTOMATION SYSTEM?

An office automation system is an integrated process that consists of hardware, software, and networking, all working together to accomplish different office tasks, such as inventory management, accounting, email, and word processing. The system works by collecting, storing, manipulating, and passing on office information and data digitally, to accomplish basic goals.

Perhaps, the most common form of an office automation system could be the Microsoft Office Suite which consists of almost all types of document processing tools such as word processing, spreadsheets, PowerPoint presentation, database managing application, etc. However, this is the most simple function-related work domain of an OAS and it was more popular in the 90s.

Today OAS has become sophisticated and has integrated many tasks of a workplace to establish itself as a bigger solution for problems related to every aspect like inter-office communication, data storage, and management, etc.

Adapted and taken from:

https://www.quickfms.com/blog/office-automation-system-tips-startups on December 20th, 2019.

WHILE YOU READ

B. Fill in the blanks with the information from the text. Compare your answers with a partner.

1.	An Office Automated System combines, &
2.	is a common office task that consists of the creation, storage and manipulation of text on a computer.
3.	Microsoft Office Suite is a common example of an
4.	Document processing tools were popular during
5	An OAS in an office today will offer for diverse problems

AFTER YOU READ

- **C.** Discuss with a partner. How do office automation systems impact productivity?
- **D.** With your partner, create a comic strip showing how people solved work-related tasks before and after office automation systems.



For example, you can show a person with many folders and then same person using a database in different panels.



Lesson III: Speaking.

WARM UP

A. What do you think the most useful pieces of software are? Discuss with the class.	
Click here to listen	□())

B. Complete the dialogue below with the words from the box. Listen to the audio and check your answers.

user-friendly - compatible - tech person - productivity
update - backup - install

Charles: Hey! I am the new IT support for the building. My name is Charles.

Fred: Nice to meet you. I am not a (1) _______ myself, to be honest.

Charles: That's ok. I am sure I can help you raise your (2) ______

Fred: I have to (3) ______ information from customers, but sometimes some contacts are gone! What do you suggest?

Sarah: Ok, you need a software that can (4) ______ information.

Fred: That'd be brilliant. Can you (5) ______ one?

Sarah: Absolutely. I have one in mind.

Fred: Thank you! Is that software (6) ______?

Sarah: Let's check if it is (7) ______ with your operating system.

Fred: I appreciate your help and patience.

CONTROLLED PRACTICE

C. Work with a partner and practice the dialogue.

FREER PRACTICE

D. Change the underlined words in the previous dialogue using your own ideas or from the pictures below.

Meet my clients



Take notes during a meeting



Work from home



There is not time for long distances

I take too much time rewriting my notes

I have important files at the office

WRAP UP

E. Practice the new dialogue with your partner. Then, present it in front of the class.



Lesson IV: Writing

BEFORE YOU READ

A. Talk to a partner. Have you searched for answers to your computer issues? What kind?



COMPUTER HOPE: FREE COMPUTER HELP SINCE 1998

Computer Hope is a website that offers "free support and online services that allow any user to learn more about their computer and find technical assistance". The team offers tips and tricks that users can learn to increase their productivity and have a better computer experience.

Below you can read an extract from an article titled 'How can I increase my productivity on a computer?'.

USE SHORTCUT KEYS

Use of shortcut keys can help you save time by keeping your hands on the keyboard instead of having to navigate a menu to select the action every time it is needed. The more an action is used, the more using the shortcut key for it can help improve productivity. For instance, if you copy text often in Windows, using the Ctrl+C shortcut can save you from needing to use the right-click menu or the edit menu to perform the copy.

Adapted from Computer Hope, 'How can I increase my productivity on a computer?' in December, 2019, from https://computerhope.com/issues/ch001511.htm

B. Work with a partner. Answer these questions.

- 1. Did you find the shortcut keys section useful?
- 2. If you were the writer for the website, what tips would you give?
- **3.** Is there a specific audience for your tips?

The website wants to add more tips to its articapprox.) giving tips about specific uses of tech your work.		
WOIN O		
VISING Check your work using the table below.		
	✓	
Check your work using the table below.	✓	
Check your work using the table below. Did I?	•	
Did I? include a title?		

E. After you finish, type your work and give it to the teacher. All paragraphs will be printed and

placed on a wall of the classroom.



Project: Students supporting students

	a person in the school who requires help with any technological device you know. Gather the tion and show the process in a 'students support students' fair.
Duston	in a company and a company with a good final part their annexific manda in target of tack malage. Deviate
	view your school community and find out their specific needs in terms of technology. Registe process in the project's guided page. (Check extra materials).
4. 5.	
J.	

C. Choose one of the interviewees and help them raise their productivity or find a solution to a computer-related problem.



- **D.** Make a before/after presentation. Include the details from activity B on a poster. Add all the important steps and think about your stand for the class' fair.
- **E.** Present the process in the class fair and reflect briefly on helping the community where we study or live. The teacher will invite other classmates to the room to visit the stands.

Unit IV: Operating Systems





Goals: Speak about the benefits and characteristics of

open and closed source software/OS based on a

video. Create a tutorial on how to install an operating

system.

Skills: Listening, reading, speaking and writing.

Project: OS Recommendation.

☆ 24 KEY WORDS

Open source Support (v) Brand new (adj)

software (n) Version (n) Restart (v)

Closed source Release (v) Insert (v)

software (n) Run (v) Hold (v)
Free (adj) Vulnerable (adj) Flash drive (n)

Performance (n) Discontinue (v) Turn off (v)

Source code (n) Survey (v)
Access (n) Survey (n)

Upgrade (v) Satisfied (adj)
Provide (v) Experience (n)



Lesson I: Listening

BEFORE YOU LISTEN

A. Talk to your partner.



- **a)** Do you know what an open source software is? If not, what do you think it refers to?
- **b)** Do you know any examples of it?

Watch a video



B. Watch the video 'Open source vs Closed Source software'. Listen carefully and check your answers in Exercise A.

WHILE YOU LISTEN

C. Fill in the blanks with the words you hear from the video. Listen again and check your answers.

Almost every piece of computer software is created using **(1)** or the technical blueprint that tells the program how to function. When creators release their finished product to the public, they must decide whether to make their software open source or **(2)**

With closed source software, also known as proprietary software, the public is not given (3) _______ to the source code, so they can't see or modify it. But with open source software, the source-code is publicly available and (4) ______ can see or modify that code if they desire.

Keep in mind that you don't have to read or change any code in order to use an (5) ______ product.

The vast majority of apps, games and other popular software are closed source. However, there are open source options for many types of **(6)**

AFTER YOU LISTEN

- **D.** Read the statements below and classify them into Open source (OP) or Closed source (CS) features. Check with a classmate.
 - **1.** Public access to the source code is restricted.
 - **2.** ____ It is harder to find technical support.
 - **3.** ____ Most of the apps or games fall in this category.
 - **4.** Users can help increase the performance of the software.
 - **5.** The creator is in charge of spotting bugs.
 - **6.** _____ Software is more likely to be free.

E. Discuss with your class



1. Why do you think open source operating systems are not well known?
2. Should all operating systems be open source?
3. As a programmer, what type of operating system would you use? Open
or closed source?



Lesson II: Reading comprehension

BEFORE YOU READ

- **A.** Answer these questions with a partner.
- (a) When should you upgrade an operating system?
- **(b)** Would you upgrade your OS every time there is a new version?



(c) Would you wait some years before upgrading an OS?

WINDOWS 7 SUPPORT ENDED ON JANUARY 14, 2020

Microsoft made a commitment to 1. provide 10 years of product support for Windows 7 when it was

- 2. released on October 22, 2009. This 10-year period has now ended, and Microsoft has
- **3. discontinued** Windows 7 support so that we can focus our investment on **4. supporting** newer technologies that provide new experiences. The specific end of support day for Windows 7 was January 14, 2020. Technical assistance and software updates from Windows Update that help protect your PC are no longer available for the product. Microsoft strongly recommends that you move to Windows 10 to avoid a situation where you need service or support that is no longer available.

Frequently Asked Questions

What does end of support mean for me?

After January 14, 2020, PCs **5. running** Windows 7 no longer receive security updates. Therefore, it's important that you **6. upgrade** to a modern operating system such as Windows 10, which can provide the latest security updates to help keep you and your data safer. In addition, Microsoft customer service is no longer available to provide Windows 7 technical support. Related services for Windows 7 are also being discontinued over time. For example, certain games such as Internet Backgammon and Internet Checkers as well as the Electronic Program Guide for Windows Media Center are scheduled to be discontinued in January 2020.

What happens if I continue to use Windows 7?

If you continue to use Windows 7 after support has ended, your PC will still work, but it will be more vulnerable to security risks and viruses. Your PC will continue to start and run, but it will no longer receive software updates, including security updates from Microsoft.

Adapted from Windows Support "Windows 7 support ended on January 14, 2020" https://support.microsoft.com/en-us/help/4057281/windows-7-support-ended-on-january-14-2020 visited in January, 2020

WHILE YOU READ	
B. Write the number of the action in bold from the text next to its synonym.	
Backing	
Supply	
Use	
Ceased	
Advance	
Distributed	
C. Read again, mark these statements true (T) or false (F).	
1. T F Microsoft provided Windows 7 for less than 10 years.	
2. TF Technical assistance for Windows 7 will keep working after it is discontinu	ıed.
3. T F I could work using Windows 7 after January 2020 if I wanted to.	
4. T F My PC could be vulnerable to viruses if I use a discontinued OS.	
5. TF There will be a newer version of Internet Checkers in January 2020.	
AFTER YOU READ	
D. Work with a classmate. Imagine you are asked to add more details to the frequently asked	
questions (FAQ) section of the website. Write at least 3 more possible questions that the articl	e
might bring.	
Example : How do I know if the newer version is compatible with my computer?	
Example. How do I know it the newer version is compatible with my computer:	
1	
2.	
3.	
4	
5	
E. Share your questions with the whole class and reflect.	
1. What are the best FAQ questions from your class?	
2. Why are they so important?	



Lesson III: Speaking

WARM UP

A. Make a group of 4 classmates. Ask the following questions.



a) Do you have a computer?
b) How often do you use your computer each day?
c) What operating system does your computer run?

CONTROLLED PRACTICE

B. Create an 8-question survey related to operating systems. The questions from Exercise A are mandatory, and the rest can be either created by you or taken from the examples below.



- **1.** From 1 to 10, how satisfied are you with your operating system?
- **2.** If you could change or upgrade your operating system, which one would you choose?
- **3.** What operating systems do you have experience with?
- **4.** What is the safest operating system according to you?
- **5.** What operating system would you recommend to your classmates?
- **6.** Would you use an open-source operating system? Which one?

FREER PRACTICE

C. Each member will survey at least 5 different people and write down their answers in a table.

NAME	Q1	Q2	Q3	Q4	Q5
BASTIÁN	YES	3 HOURS	UBUNTU	7	

WRAP UP

D. Check the answers. Choose one of t	the questions (except n°1)	and represent the an	swers in a
poster using a column graph.			

E. Share your findings with the class. Volunteer teams will present their poster.





Lesson IV: Writing

PRE-WRITING

A. Pair up with a classmate. Discuss.



a) Have you installed an operating system? Which one?

B. Read the following text and circle the unknown words. Then, look them up in a dictionary.

HOW TO INSTALL AN OPERATING SYSTEM ON A BRAND-NEW COMPUTER



This wikiHow teaches you how to install a computer operating system on a new, blank computer. You can do this on a Windows computer by inserting an operating system installation disk or drive and then starting the computer from the disk or drive. Brand new Mac computers will always come with an operating system installed, but you can reinstall your Mac's default operating system by using Internet Recovery if your Mac's hard drive is blank.

Method 1: On Windows



- **1.** Insert the installation disk or flash drive. To install a new operating system on Windows, you must have the operating system's install tool on a DVD or flash drive, and the disk or flash drive must be inserted into your computer.
- **2.** Restart your computer. Press and hold your computer's Power button to turn it off, wait for a few seconds, and then press the Power button again to turn the computer back on.

Adapted from 'How to Install an Operating System on a brand-new computer' in January 2020, from https://www.wikihow.com/Install-an-Operating-System-on-a-Brand-New-Computer

C. Discuss with your partner.



- **a)** What elements from the tutorial help you understand the instructions?
- **b)** Is there any important information the user must have before starting the installation?
- c) What are the next steps that the user should take?

DRAFTING

D. On a computer, write a tutorial on how to install an operating system. Use the answers from Exercise B in order to organize your ideas. Remember to be clear and concise with the language and include pictures as seen in the example.

REVISING

E. Share your work with a different team. Check other tutorials using the table below in order to suggest changes.



Did the authors	*
write the title of the tutorial?	
include pictures for the different steps?	
number the steps?	
use clear language?	
check punctuation and spelling?	

EDITING AND PUBLISHING

F. Read the suggestions and edit if necessary. Share your work with the teacher.



Project: OS recommendation

Many people watch video tutorials or reviews in order to decide what they want. This project aims at sharing your knowledge on operating systems.

Watch a video



A. Watch the video "macOs Catalina Hands On: What's New?". Make a group of 4 and discuss.

1 What is the nurnose of the video?



2. What did t	ne creator of the vide	o include that	helped understo	and
the ideas?			·	
3. If you were	to make a review vide	o, what opera	ting system wou	uld
you choose?				

B. Create a 2-minute video review in which you recommend an operating system.



To begin with, make a draft of what you want to include or say in the video. Give it to the teacher at the end of the lesson.

The video should include:

- 1. A title at the beginning of the video.
- 2. A short description of the OS.
- **3.** Pictures or recordings of the interface of the operating system while you use it.
- 4. Transitions between pictures/recordings.
- **5.** A final comment recommending the operating system.
- **6.** Credits at the end of the video including team members' names, class & school name.

- **C.** Record the video and edit it.
- **D.** Upload your review and share the link with your teacher.



Vocabulary Extension: Debugging

BEFORE YOU LISTEN

Click here to listen



A. Complete the sentences with the ideas from the box. Listen to the audio again and check.

produces - solve - debug - behave - spot - removing

Debugging is the process of spotting and 1) errors out of a program. Bugs cause programs to crash or to 2) unexpectedly. In order to avoid those problems, programmers

3) their code to check if the program runs correctly or to understand why the code 4) incorrect results. Let's think of an example: You got distracted while cooking your lunch. The food looked delicious, but the taste was unpleasant. How can you 5) this issue? You need to go back to the recipe, follow the steps and the bug. A spotted bug is a fixed problem.

AFTER YOU LISTEN

B. Match the words from Exercise **A** to their synonyms.

- 1 Produce a _____Find
- 2 Behave (b) _____ Develop
- 3 Remove (c) _____Fix
- (4) Debug (d) _____ Act
- 5 Spot e _____Eliminate

C. Find the bugs in these algorithms. Circle the bugs and then write the correct steps in your notebook.

HOW TO WATER YOUR GARDEN

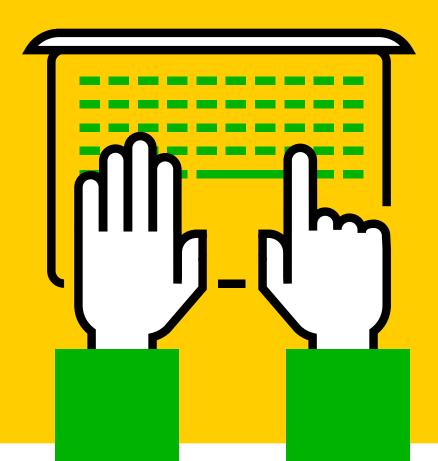
- 1. Take a watering can.
- 2. Check if it is full of water.
- **3.** If it needs water, put more water into it. If it is full of water, continue.
- **4.** Go to the garden.
- **5.** Stand far away from the plants.
- **6.** Water the green plants.
- **7.** Check if all plants were watered.
- **8.** Put away the watering can.
- **9.** Go back to the garden.

D. Check your debugging with a classmate and discuss.



Did I?	*
check the order of the steps?	
read each statement carefully?	

Appendix



RUBRICS

UNIT I : PROGRAMMING AND DATABASE PROJECT TEAM MEMBERS :						
DATE: PROBLEM CHOSEN:						
CRITERIA	EXCELLENT 4 PTS	PROFICIENT 3 PT	SATISFACTORY 2 PTS	UNSATISFACTORY 1 PT		
Problem- solving	There is a clear solution to the chosen problem.	There is a clear solution to the problem, but it is incomplete.	The possible solution does not fix the problem completely.	There is no clear solution to the chosen problem. There is no consensus.		
Visual support	The visual support was helpful.	The visual support has minor issues.	The visual support has major issues.	There is no visual support whatsoever.		
Volume	The voice of all the speakers is loud and clear.	The voice of most of the speakers is loud and clear.	The voice of at least one of the members is hard to hear	The voice of all the members is low. It's hard to listen to.		
Comprehension	Most of the ideas are clearly stated.	Most of the ideas are clear but there are minor issues.	There are some clear ideas, but parts of the text are not clear.	No ideas are comprehensible. The text is not clear at all.		
Mechanics	The ideas are well written, capitalization is correct and there are no spelling issues.	The ideas are mostly well written, but capitalization and spelling have minor issues.	The ideas are barely well written, and there are many capitalization and spelling issues.	The text does not follow basic rules of punctuation and capitalization. The text has many spelling issues.		
Teamwork & classwork	All students work equally to finish the task during the class.	Most of the students work to finish the task during the class.	Some of the students work on the task. One or two members don't work.	Only one of the members stays on task during the class. The rest of the team is not contributing.		
Total score: out of 24 pts. Overall grade:						
Comments:						

UNIT II: INSTALLATION AND CONFIGURATION OF COMPUTER EQUIPMENT TEAM MEMBERS:_ DATE: _ NAME OF THE COMPUTER: . SATISFACTORY **EXCELLENT** PROFICIENT **UNSATISFACTORY** CRITERIA 4 PTS 3 PT 2 PTS 1 PT **Structure** The guidebook There is one The guidebook The guidebook has all the aspects missing aspect in lacks two lacks more than required. the guidebook. aspects from the two aspects from instructions. the instructions. **Creativity and** The visual support The visual support The visual support The visual support organization is creative and well is creative but a lacks some lacks creativity and organization. organized. bit disorganized. creativity, but it is organized. Volume The voice of all the The voice of most The voice is hard to The voice of all the speakers is loud of the speakers is hear of at least one members is low. It's and clear. loud and clear. of the members. hard to listen to. Comprehension Most of the ideas Most of the ideas There are some No ideas are are clearly stated. are clear but there clear ideas, but comprehensible. are minor issues. parts of the text are The text is not clear not clear. at all. Mechanics The ideas are The ideas are The ideas are The text does not mostly well written, well written. barely well follow basic rules capitalization is but capitalization written, and of punctuation correct and there and spelling have there are many and capitalization. are no spelling minor issues. capitalization and The text has many spelling issues. issues. spelling issues. Teamwork & All students work Most of the Some of the Only one of the classwork equally to finish students work students work members stays the task during the to finish the task on the task. One on task during the or two members class. The rest of class. during the class. the team is not don't work. contributing. Total score: _ out of 24 pts. Overall grade: . **Comments:**

UNIT III: USER SUPPORT & PRODUCTIVITY TEAM MEMBERS: DATE: _ NAME OF THE COMPUTER: . **PROFICIENT SATISFACTORY EXCELLENT UNSATISFACTORY** CRITERIA 4 PTS **3 PT** 2 PTS 1 PT Needs The data The data The data The data collection process collection process collection process collection process was biased clearly identified identified the roughly identified the specific needs. general needs. and lacked an general needs. identification of needs. The team provided The team gives **Support** The team provided The team gives a complete a positive support basic support to poor help to the support to the to the user. the user. user. user. **Volume** The voice of all the The voice of most The voice is hard The voice of all the of the speakers is speakers is loud to hear of at members is low. It's and clear. loud and clear. least one of the hard to listen to. members. Most of the ideas Most of the ideas There are some No ideas are Comprehension are clearly stated. are clear but there clear ideas, but comprehensible. are minor issues. parts of the text The text is not are not clear. clear at all. Creativity The stand is well The stand is The stand is The stand is well decorated decorated and decorated and barely decorated shows all the steps and shows the shows some of and lacks many in the project. main steps in the the steps in the elements from the project. project. project. Teamwork & All students work Most of the Some of the Only one of the classwork equally to finish students work students work members stays the task during the to finish the task on the task. One on task during the class. or two members class. The rest of during the class. the team is not don't work. contributing. Overall grade: _ Total score: __ out of 24 pts. **Comments:**

UNIT IV: OPERATING SYSTEMS TEAM MEMBERS:_ DATE: . _ VIDEO'S TITLE: _ **PROFICIENT SATISFACTORY EXCELLENT UNSATISFACTORY** CRITERIA 4 PTS 3 PT 2 PTS 1 PT **Process** The draft of the The draft of the The draft of the The team did not script is delivered video is delivered video is delivered hand in the script of on the first class. on the second after uploading the the video. class. video. **Structure** The video has There is one The video lacks The video lacks all the aspects missing aspect in two aspects from more than two the video. the instructions. aspects from the required. instruction. Volume & The audio is clear The audio is The audio has The voice of all the audio & the voice of all clear & the voice issues and/or the members is low the speakers is of most of the voice is hard to and/or audio is not loud and clear. speakers is loud hear of at least one working. of the members. enough. Most of the ideas Most of the ideas Comprehension There are some No ideas are are clearly stated. are clear but there clear ideas, but comprehensible. are minor issues. parts of the text are The text is not clear not clear. at all. Creativity The video is The video The video shows The video lacks creative and is creative creativity in terms some creativity, harmonic. & harmonic but it is not of the format. with minor harmonic. inconveniences. Teamwork & All students work Most of the Some of the Only one of the classwork equally to finish students work students work members stays to finish the task the task during the on the task. One on task during the during the class. or two members class. The rest of class. don't work. the team is not contributing. Total score: ___ out of 24 pts. Overall grade: _ **Comments:**

Project 1 Peer evaluation Our team: Assessed team:		
Questions	X or ✓	
Did the solution solve the pro- blem?		
Did the poster include pictures and descriptions?		
Did all team members speak loud enough?		
Did all team members work equally?		

Project 1 Peer evaluation Our team: Assessed team:			
Questions	X or ✓		
Did the solution solve the problem?			
Did the poster include pictures and descriptions?			
Did all team members speak loud enough?			
Did all team members work equally?			

Project 1 Peer evaluation				
Our team:				
Assessed team:				
Questions	X or ✓			
Did the solution solve the problem?				
Did the poster include pictures and descriptions?				
Did all team members speak loud enough?				
Did all team members work equally?				

Project 1 Peer evaluation Our team: Assessed team:			
Questions	X or ✓		
Did the solution solve the problem?			
Did the poster include pictures and descriptions?			
Did all team members speak loud enough?			
Did all team members work equally?			

Project 1 Peer evaluation Our team: Assessed team:		
Questions	X or ✓	
Did the guidebook include all the needed aspects?		
Did the guidebook look creative and appealing?		
Did all team members speak loud enough?		
Did all team members work equally?		

Project 1 Peer evaluation Our team: Assessed team:		
Questions	X or ✓	
Did the guidebook include all the needed aspects?		
Did the guidebook look creative and appealing?		
Did all team members speak loud enough?		
Did all team members work equally?		

Project 1 Peer evaluation	
Our team:	
Assessed team:	
Questions	X or ✓
Did the guidebook include all the needed aspects?	
Did the guidebook look creative and appealing?	
Did all team members speak loud enough?	
Did all team members work equally?	

Project 1 Peer evaluation Our team: Assessed team:	
Questions	X or ✓
Did the guidebook include all the needed aspects?	
Did the guidebook look creative and appealing?	
Did all team members speak loud enough?	
Did all team members work equally?	

Project 2 Peer evaluation Our team: Assessed team:	
Questions	X or ✓
Did the guidebook include all the needed aspects?	
Did the guidebook look creative and appealing?	
Did all team members speak loud enough?	
Did all team members work equally?	

Project 2 Peer evaluation Our team: Assessed team:	
Questions	X or ✓
Did the guidebook include all the needed aspects?	
Did the guidebook look creative and appealing?	
Did all team members speak loud enough?	
Did all team members work equally?	

Project 3 Peer evaluation Our team: Assessed team:	
Questions	X or ✓
Did the team identify the needs of the user?	
Did the team provide an efficient solution to the user?	
Did the team decorate the stand of the presentation?	
Did all team members work equally?	

Project 3 Peer evaluation	
Our team:	
Assessed team:	
Questions	X or ✓
Did the team identify the needs of the user?	
Did the team provide an efficient solution to the user?	
Did the team decorate the stand of the presentation?	
Did all team members work equally?	

Project 3 Peer evaluation Our team: Assessed team:	
Questions	X or ✓
Did the team identify the needs of the user?	
Did the team provide an efficient solution to the user?	
Did the team decorate the stand of the presentation?	
Did all team members work equally?	

Project 3 Peer evaluation Our team: Assessed team:	
Questions	X or ✓
Did the team identify the needs of the user?	
Did the team provide an efficient solution to the user?	
Did the team decorate the stand of the presentation?	
Did all team members work equally?	

Project 4 Peer evaluation	
Our team:	
Assessed team:	
Questions	X or ✓
Did the team include all the parts needed?	
Did the team talk about the operating system clearly?	
Did the team make a creative video?	
Did all team members work equally?	

Project 4 Peer evaluation Our team: Assessed team:	
Questions	X or ✓
Did the team include all the parts needed?	
Did the team talk about the operating system clearly?	
Did the team make a creative video?	
Did all team members work equally?	

Project 4 Peer evaluation Our team: Assessed team:	
Questions	🗙 or 🗸
Did the team include all the parts needed?	
Did the team talk about the operating system clearly?	
Did the team make a creative video?	
Did all team members work equally?	

Project 4 Peer evaluation Our team: Assessed team:	
Questions	X or ✓
Did the team include all the parts needed?	
Did the team talk about the operating system clearly?	
Did the team make a creative video?	
Did all team members work equally?	

UNIT 3: PROJECT GUIDED PAGE

This document helps you organize the process of your project. Remember to register all the steps.

Team members: 1				
Name	Date		Technology issue	
Name of the Interviewee				
Role in the school				
Description of the issue				
User's request				
Possible solutions				

DATABASE TELEPHONE GAME

Time: 10 minutes

Description: The cinema's server was attacked by a virus and the database was compromised. Luckily, we removed the virus and we have a backup version, but the virus messed up all the tables and its attributes. We need your help to organize the database once again. You will read the names of the attributes and write them on the correct table.

Steps

- **1.** Each row in the classroom will be a team.
- 2. The person at the end of the row will have a paper with the title of three different tables (customer, product and order).
- **3.** There will be different pieces of paper randomly placed on the board containing the attributes of each table.
- **4.** The person at the beginning of the row will stand up, turn over one of the papers and go back to the seat to tell the person behind them the uncovered word. The 2nd person in the row tells the word to the person behind them and so on and so forth until the last person of the row.
- **5.** The last person of each row will write the attribute in the correct table. Then, they will go and sit down on the first seat of the row. The rest of the students sit on the seat behind theirs too. Now the person that passed the message first is the second person, and the last person goes to the first seat.
- 6. Repeat these instructions until all tables are complete.
- 7. Encourage rows not to give up. Keep record of the winning rows so you acknowledge their effort.
- 8. At the end of the game, the class altogether checks if each row placed the attributes correctly.

Materials:

Cut-outs of the attributes & Database Tables sheet.

Customer		
1 First_name		
2 Last_name		
3 Email		
4 Telephone_number		

Product	
1 Title	
2 Ticket_price	
3 Genre	
4 Movie_length	

Order		
1 Order_number		
2 Order_date		
3 Total_price		
4 Discount		

^{**}Solved database tables.

STUDENT'S EMPTY TABLES

Customer	Product	Order
Customer	Product	Order
Customer	Product	Order
Customer	Product	Order
		1

First name
Last name
Email
Telephone number
Title
Ticket_price
Genre
Movie_length
Order_number
Order_date
Total_price
Discount

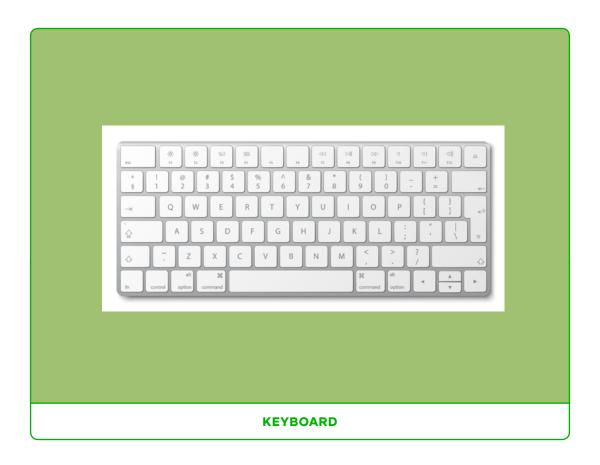
ANSWER KEY

UNIT I	UNIT II	LESSON 4: TECH SUPPORT
LESSONI	LESSONI	A
С	Α	 Henry needs advice on computers. The user works editing pictures
1. task	1. G	and worries about the speed of the
2. programming	2. D	computer.
3. function	3. F	3. Repairing a computer is cheaper
4. technology	4. E	than buying a new one, but new
5. algorithms	5. A	computers have better speed
	6. B	features.
D		
	D	
1. Boil a pot of water.		UNIT III
2. Add the spaghetti.	1. Hardware is the physical part of a	
3. Stir the spaghetti occasionally.4. Drain the water.	computer and software is the digital one.	LESSONI
5. Serve with a sauce of your choice	2. Internal and external parts.	
	3. Computer programs, apps or	С
LESSON II	operating systems.	4.7
	4. Hardware and software are equally	1. True 2. False
Α	important and necessary.	2. False 3. False
	,	3. False 4. False
1. c	LESSON 2	5. True
2. b		5. True
3. a	В	D
4. e		
5. d	Linux & Ubuntu	A. 2
		B. 1
С	С	C. 5
		D. 4
a F	1. False	E. 6
b T	2. True	F. 3
c T	3. True	
d F	4. False	LESSON 2
e T	5. True	
	6. False	Α
LESSON IV		
_	LESSON III	A. 5
В	_	B. 4
	В	C. 1
1. No problem		D. 3
2. That's great	1. repair	E. 2
3. Don't worry	2. odd	
4. Exactly!	3. take 4. issue	В
	4. Issue 5. sorted	
	5. sortea6. appreciate	1. hardware - software - networking
	o. appreciate	2. word processing
		3. office automation system
		4. the 90s
		5. a bigger solution

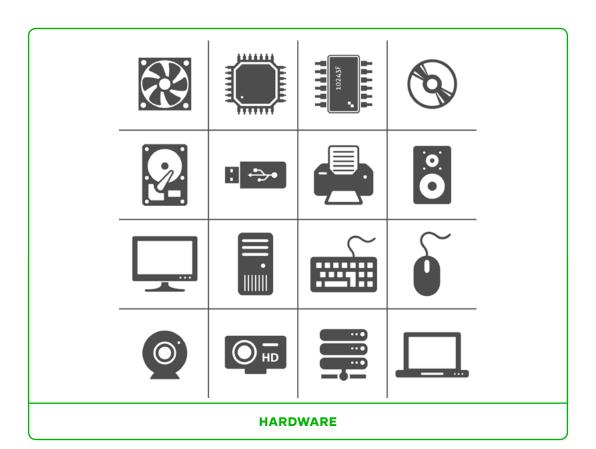
LESSON III	LESSON II	
LESSON III	LESSON II	С
В	В	· ·
		3 - 'water' instead of 'soda'.
1. tech-person	A. 4	5 - 'close to' instead of 'far away from'.
2. productivity	B. 1	6 - 'all the '' instead of "the green".
3. update	C. 5	9 - Go back to the house
4. backup	D. 3	
5. install	E. 6	
6. user-friendly	F. 2	
7. compatible		
	С	
UNIT IV	1. False	
LECCONII	2. False	
LESSON I	3. True	
С	4. True	
C	5. False	
1 Source code		
Source code Closed source	VOCABULARY EXTENSION	
2. Closed source	VOCABULARY EXTENSION	
2. Closed source3. Access	VOCABULARY EXTENSION A	
2. Closed source3. Access4. Programmers	A	
2. Closed source3. Access	A 1 removing	
2. Closed source3. Access4. Programmers5. Open source	A 1 removing 2 behave	
2. Closed source3. Access4. Programmers5. Open source	A 1 removing 2 behave 3 debug	
2. Closed source3. Access4. Programmers5. Open source6. Programs	A 1 removing 2 behave 3 debug 4 produces	
2. Closed source3. Access4. Programmers5. Open source6. Programs	A 1 removing 2 behave 3 debug 4 produces 5 solve	
 2. Closed source 3. Access 4. Programmers 5. Open source 6. Programs D 1. CS 2. OS 	A 1 removing 2 behave 3 debug 4 produces	
 2. Closed source 3. Access 4. Programmers 5. Open source 6. Programs D 1. CS 2. OS 3. CS 	A 1 removing 2 behave 3 debug 4 produces 5 solve 6 spot	
 2. Closed source 3. Access 4. Programmers 5. Open source 6. Programs D 1. CS 2. OS 3. CS 4. OS 	A 1 removing 2 behave 3 debug 4 produces 5 solve	
 2. Closed source 3. Access 4. Programmers 5. Open source 6. Programs D 1. CS 2. OS 3. CS 4. OS 5. CS 	A 1 removing 2 behave 3 debug 4 produces 5 solve 6 spot B	
 2. Closed source 3. Access 4. Programmers 5. Open source 6. Programs D 1. CS 2. OS 3. CS 4. OS 	A 1 removing 2 behave 3 debug 4 produces 5 solve 6 spot B a - 5	
 2. Closed source 3. Access 4. Programmers 5. Open source 6. Programs D 1. CS 2. OS 3. CS 4. OS 5. CS 	A 1 removing 2 behave 3 debug 4 produces 5 solve 6 spot B a - 5 b - 1	
 2. Closed source 3. Access 4. Programmers 5. Open source 6. Programs D 1. CS 2. OS 3. CS 4. OS 5. CS 	A 1 removing 2 behave 3 debug 4 produces 5 solve 6 spot B a - 5 b - 1 c - 4	
 2. Closed source 3. Access 4. Programmers 5. Open source 6. Programs D 1. CS 2. OS 3. CS 4. OS 5. CS 	A 1 removing 2 behave 3 debug 4 produces 5 solve 6 spot B a - 5 b - 1	

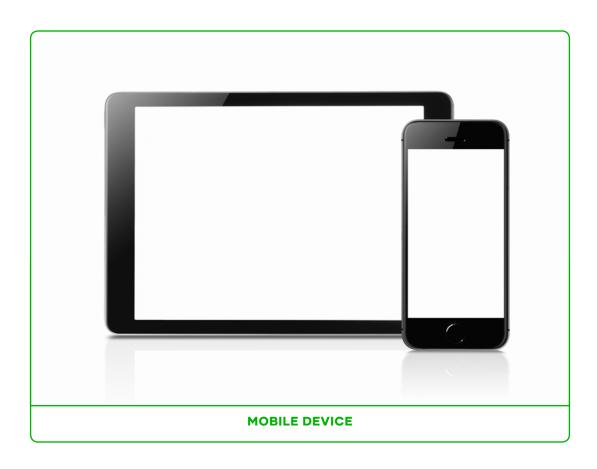
Flashcards



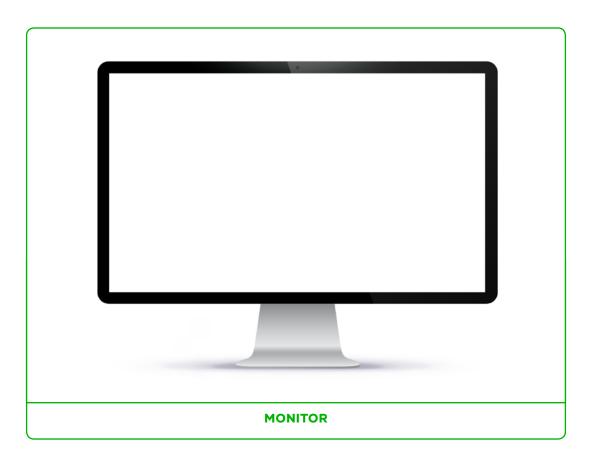




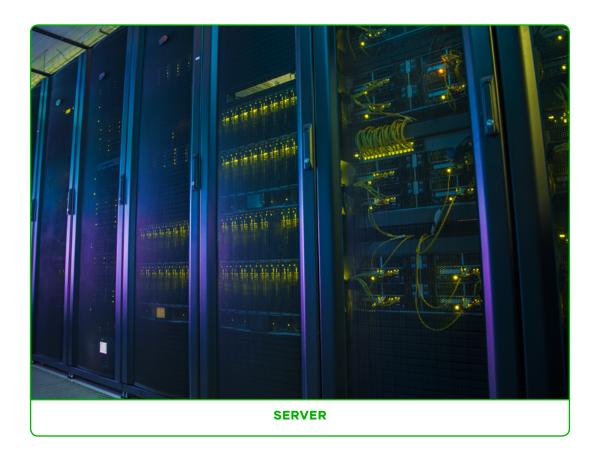




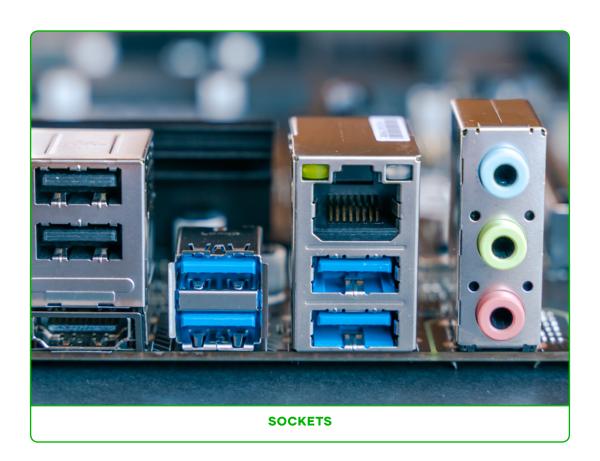












BIBLIOGRAPHY

UNIT & LESSON	TITLE	SOURCE
Unit I Lesson I	'Computer Science Basics: Algorithms'	'Computer Science Basics: Algorithms' video taken from the Youtube Channel 'GCFLearnFree.org'. in September, 2019.
Unit II Lesson III	'A huge database of Facebook Users' phone numbers found online'	Adapted from: "A huge database of Facebook users' phone numbers found online", techcrunch.com in September, 2019
Unit II Lesson II	'Computer Basics: Understanding Operating Systems'	'Computer Basics: Understanding Operating Systems' video taken from the Youtube Channel ' GCFLearnFree.org' in October, 2019.
Unit II Lesson II	'Most popular mobile OS 1999 - 2019'	'Most popular mobile OS 1999-2019' video taken from the Youtube Channel 'Data Is Beautiful' in October, 2019.
Unit III Lesson I	'What Does Support Mean?'	'What Does Support Mean' video taken from the Youtube Channel 'SEU_OIT (The Office of Information of St. Edward's University)' in December, 2019.
Unit III Lesson I	'All About Office Automation System & Tips for Startups'	Adapted from https://www.quickfms.com/blog/office-automation-system-tips-startups in December, 2019.
Unit III Lesson II	'How can I increase my productivity on a computer?'	Adapted from Computer Hope, 'How can I increase my productivity on a computer?' in December, 2019, from https://www.computerhope.com/issues/ch001511.htm
Unit III Lesson IV	'Open Source vs. Closed Source Software'	"Open vs closed source software" video taken from the Youtube Channel 'GCFLearnFree.org'. in January, 2020. https://www.youtube.com/watch?v=2q91vTvc7YE
Unit IV Lesson I	'Windows 7 support ended on January 14. 2020'	Adapted from Windows Support "Windows 7 support ended on Janurary 14, 2020" https://support.microsoft.com/en-us/help/4057281/windows-7-support-ended-on-january-14-2020 visited in January, 2020
Unit IV Lesson II	"How to install an Operating System on a brand new computer"	Adapted from 'How to Install an Operating System on a brand new computer' in January 2020, from https://www.wikihow.com/Install-an- Operating-System-on-a-Brand-New-Computer
Unit IV Lesson IV	"macOs Catalina Hands On: What's New?".	"macOs Catalina Hands On: What's New?" video taken from the Youtube Channel ' MacRumors' in January, 2020.



