REPUBLIC OF CAMEROON

Peace – Work – Fatherland

MINISTRY OF SECONDARY EDUCATION

INSPECTORATE GENERAL OF EDUCATION

Inspectorate of Pedagogy in charge of the Teaching of Computer Science



REPUBLIQUE DU CAMEROUN Paix – Travail – Patrie

MINISTERE DES ENSEIGNEMENTS SECONDAIRES

INSPECTION GENERALE DES ENSEIGNEMENTS

Inspection de Pédagogie chargée de l'enseignement de l'informatique

ANNUAL HARMONISED PROGRESSION SHEET FOR COMPUTER SCIENCE FORM 2

SCHOOL YEAR	SCHOOL	••••••	WEEKLY WORKLOAD: 2 periods	COEFFICIENT: 2
TEACHER	GRADE	TEL		

Term	Week	Module	Category of	Competency	Lesson title		Nat	ure of l	esson	Observation
rem	week	Module	action	statement	Lesson title	Objectives	Th	Prac	Dig	
					Diagnostic evaluation					
	1				Lesson 1: Categories of computer hardware	State the main role of input, output, storage, and processing devices				
		nt 2	Classifying	Given a set of hardware, learners	Lesson 2: Types of Input and output devices	Identify input, output, storage and processing devices				
ERM	2	environment	hardware components	classify devices into appropriate categories	Lesson 3: Types of processing devices and storage devices	State the function of a given input device				
岜		virc			Lesson 4: Integration activities	State the function of a given output device				
RST	3	_		Given a situation presenting computer faults, learners	Lesson 5: introduction to computer maintenance	Outline differences between impact and non- impact printers				
HA		omputing	Applying basic preventive and	propose basic corrective and preventive	Lesson 6: Common hardware problems	State the main components of the CPU (mention GPU)				
		oml	corrective maintenance	maintenance actions to solve or stop such	Lesson 7: Common software problems	Outline examples of primary and secondary storage				
	4	C		issues. The action proposed should be logical and pertinent.	Lesson 8: Integration activities					
	5				Evaluation					

			Lesson 9: Initiation to cloud computing	Define cloud computing Outline the 3 main types of cloud computing services Outline examples of cloud services		
			Remediation			
6	Understanding embedded systems, IoT and cloud	Given a situation with factors related to IoT and embedded systems, learners identify the correct	Lesson 10: Types of sensors	State common types of sensors State the function of a given type of sensor Differentiate between a sensor and an actuator		
7	computing	type of sensors used in the situation and their role.	Lesson 11: Notions on embeded systems and IOT	Differentiate between embedded systems and IoT Describe situations where IoT and embedded systems are used Explain how IoT, embedded systems and cloud computing work together		
			Lesson 12: Integration activities			
o	Examining	Provided with a situation with factors related to users with	Lesson 13: Assistive technologies	Explain the concepts of disability, and assistive technology Outline examples of assistive technologies State the role of a given assistive technology		
8	technologies for the disabled	disabilities, learners identify appropriate technologies for a given disability within a context	Lesson 14: Assistive technologies for disabilities	Match a given assistive technology for an appropriate disability State common assistive technologies integrated in an operating system		
			Lesson 15: Integration activities			
9	Choosing appropriate system software	Given a situation, learners select system software that are inline with the situation.	Lesson 16: Notions on operating systems	Explain the concept of operating systems State common types of operating systems and give examples of each Outline the functions of an operating system		

	10			Lesson 17: Notions on utility software and device drivers Lesson 18: Integration	Differentiate between utility software and device drivers State the function of a given type of utility software with examples State the purpose of device drivers		
				activities			
				Evaluation			
	11			Lesson 19: Notions on Spreadsheet software	State common examples of spreadsheet software Outline core features of a spreadsheet software Identify when to use an electronic spreadsheet		
				Remediation			
	12		Given a task that	Lesson 20: Using a spreadsheet to solve problems	Carry out simple formatting using a spreadsheet Perform simple calculations using a spreadsheet		
W	13	Using presentation, desktop publishing and spreadsheet	requires a desktop publishing, spreadsheet software or presentation software, learners choose adapted	Lesson 21: Notions on presentation software	State common examples of presentation software Outline core features of a presentation software Identify when to use a presentation software		
) TER		software	software and produce an output that corresponds to the task given.	Lesson 22: Using a presentation software to solve problems	Carry out simple formatting using a presentation software Produce slides with different layouts		
SECOND TERM	14			Lesson 23: Notions on desktop publishing software	State common examples of desktop publishing software Outline core features of a desktop publishing software Identify when to use a desktop publishing software		
				Lesson 24: Using a desktop publishing software to solve problems	Carry out simple formatting using a desktop publishing software Produce simple publications using a desktop publishing software		_

15			Lesson 25: Integration activities Lesson 26: History of the internet	Outline major landmarks in the history of the internet Outline elements influencing the growth of the internet			
	Exploring the	Provided with a situation related to the access and use of the internet, learners	Lesson 27: Accessing the internet	State the components needed to access the internet Choose appropriate ISP in a given context			
16	internet and browsers	assemble the necessary and adapted tools needed to access the internet, and use basic features of a browser correctly.	Lesson 28: Using a browser	Explain the concepts of tabs, browsing history, and bookmark. Identify common features on the interface of a browser Perform basic operations that can be done with a browser			
17			Lesson 29: Integration activities				
		1	Evaluation		'	· · · · · ·	
			Remediation				
18		nmunication software to perform a task, learners create laboration expected content	Lesson 30: Communication and collaboration tools	Differentiate between communication and collaboration Give examples of communication tools and collaboration tools			
	Using recommunication and ta collaboration tools		Lesson 31: Email tool	Create an email account in a given email service Make use of an email service to send mails, read mails, and attach files.			
19			Lesson 32: Chat tool	Make use of a chat tool to send and receive text messages Make use of a chat tool to send non-text messages Make use of a chat tool to respond to a specific			
				message in a conversation			

					Lesson 34: Word processors in the cloud	Outline examples of word processors in the cloud Make use of a word processor in the cloud to collaborate		
					Lesson 35: Integration activities			
	21			Given a situation in	Lesson 36: Introduction to number systems	Explain the concept of number systems State the number system used in computing Explain how to count in base 2, 8, and 16 Convert from base 2 to base 10		
	21 22 23 24 25		Representing numbers and characters	- The right encoding	Lesson 37: Notions on encoding numbers	Explain the concept of encoding, and number encoding Explain the technique used to encode positive integers Convert from base 10 to base 2		
				and characters correctly.	Lesson 38: Notions on encoding characters	Explain the concept of character encoding State character encoding schemes Make use of the ASCII character encoding scheme.		
	23				Lesson 39: Integration activities			
		_			Evaluation			
				T	Remediation			T
	24	4	Camanakina	Given time units or	Lesson 40: Conversion between units of time	Identify units of time Arrange units of time in a particular order Convert between units of time		
N N	25		between units of time and of time and	storage units, learners compare and convert from one unit to another.	Lesson 41: Conversion between units of storage	Identify units of storage Arrange units of storage in a particular order Convert from one unit of storage to another		
					Lesson 42: Integration activities			
	26		Protecting against data loss and	Presented with a situation with factors related to protecting data, learners propose	Lesson 43: Notions on authentication	Explain the concept of unauthorised access, and authentication Outline authentication techniques used to protect data from unauthorised access		
Ŧ	24		unauthorised access	appropriate protection mechanisms to fight	Lesson 44: Notions on backup	Explain the concepts of data loss, backup, and recovery Explain how backup prevents data loss Outline different backup media		

	27			against loss and unauthorised access.	Lesson 45: Local backup vs cloud backup	Describe local backup, and cloud backup Compare and Contrast cloud backup with local backup State pros and cons of local backup and cloud backup			
					Lesson 46: Integration activity				
	28			Provided with a situation with issues related to digital identities, digital	Lesson 47: Notions on digital identify	Explain the concepts of digital identify, and identity theft Outline common components of a digital identity (username and password) Outline best practices to manage multiple digital identities			
			Managing digital identities	footprints, and reputation, learners recommend best practices to deal with	Lesson 48: Types of digital footprint	Explain the concept of digital footprints State ways users create digital footprints Differentiate between passive and active digital footprints			
	29	Digital citizenship 2	identities	or prevent such a situation. The practices should be pertinent and coherent to the situation.	Lesson 49: Managing digital footprints	State positive and negative effects of digital footprints Outline ways of minimising digital footprints Discuss ways of protecting online reputation			
		tize			Lesson 50: Integration activities				
- 	20	Ġ.			Evaluation		•	•	
	30	-E			Remediation				
		Digit		Given a problem with factors related to the credibility of information, learners	Lesson 51: Sources of information	Differentiate between primary and secondary sources of information Identify the source of a given information Identify sponsored content on the internet			
	31		Evaluating the credibility and reliability of sources of information	detect the credibility and reliability of common sources of information and digital content and recommend trustworthy sources to access information	Lesson 52: Verifying the credibility of information	Explain ways of verifying the credibility of information State trustworthy sources of information and digital content Explain why secured websites and digital distribution services can be reliable sources of information			
	32			and digital content	Lesson 53: Integration activities				

	ا 18 2		Learners develop strategies to solve problems in a logical manner	Lesson 54: Notions on Problem solving	Outline the steps of problem solving Explain the concepts of computational thinking Differentiate 2D representations from 3D		
	d coding	Problem solving		Lesson 55: Solving problems 1	Apply the steps of problem solving to a problem Apply decomposition and pattern recognition to a problem		
33	ing and	strategies		Lesson 56: Solving problems 2	Apply abstraction to a problem Write the solution to a problem as a sequence of steps such that key characteristics of abstraction are seen in the solution		
	thinking			Lesson 57: Integration activities			
34				Lesson 58: Writing programs in a block programming environment 1	Work in block programming environments Write programs using a block programming environment		
35	Computational	Notions of programming		Lesson 59: Writing programs in a block programming environment 2	Write programs using a block programming environment		
	mpr			Lesson 60: Integration activities			
36	9			Evaluation		 	
30				Remediation			

END OF PROGRAM