## FIRST TERM WEEKLY LESSON NOTES – B9 WEEKLY LESSON NOTES – B9

VVEEK I							
Week Ending:	06-10-2023	DAY:		Subject	Computing		
Duration: 60mi	ns	<b>'</b>		Strand:	Introduction To C	Computin	ng .
Class: B9		Class Si	ize:	Sub Str	and: Components	Of Con	nputers
Content Stand B9.1.1.1 Identify   Technology Tool	cuss the tren	ds in the next gener	ration	Lesson:			
Performance In Learners can disc	ndicator: cuss the trends in the	next genera	ation of compu	iters	CC8.2: CP6.1	encies:	
New words	Quantum Comp	uting, Super	computer, Pro	cessing Pov	ver, Sycamore		
Reference: Con	nputing Curriculum F	P.g. 40					
Activities For I	_earning & Assessr	nent			Resources	Progi	ression
1990s) to moder Ask learners to c upgrades.	entage of older comple n-day computers. liscuss in pairs or sma ce indicators and intr	all groups th	e visible chang		Pictures and videos	trends next g	ssing the s in the generation nputers
Main (35mins)							
	on about the potentia ration of computers.	al features ar	nd upgrades w	e might see			
Ask learners to b	orainstorm and list do	wn these fe	atures.				
•	rt predictions about nced augmented reali		`				
Discuss these as	a class, comparing lea	arners' predi	ictions with ex	pert ones.			
• Quantu special paramaking it	ncept of quantum computing.  m Computing is a sarticles called "qubits" much faster at solviromputers.	super-power to do many	red computer of the computer o	that uses it once,			

• Classical Computing: This is the type of computing that uses "bits" that are either in an on (1) or off (0) state to process information.

Describe the Google quantum computer, specifically the "Sycamore" processor.

Compare its processing power with other supercomputers, highlighting the significant advancements.

Using infographics or videos can make this complex subject more accessible to grade 7 learners.

#### **Assessment**

- I. What is quantum computing, and how does it differ from classical computing?
- 2. Why is Google's "Sycamore" significant in the world of computers?
- 3. Name one feature you expect to see in the next generation of computers.
- 4. How might the increased processing power of quantum computers impact industries like medicine or transportation?

#### Reflection (10mins)

Summarize the key points of the lesson. Emphasize the rapid advancement of computer technology and the exciting possibilities that the future holds, as well as the challenges and considerations that come with such advancements.

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.

#### Homework/Project Work/Community Engagement Suggestions

- What is quantum computing, and how does it differ from classical computing?
- Why is Google's "Sycamore" significant in the world of computers?
- Name one feature you expect to see in the next generation of computers.
- How might the increased processing power of quantum computers impact industries like medicine or transportation?

#### **Cross-Curriculum Links/Cross-Cutting Issues**

None

#### Potential Misconceptions/Student Learning Difficulties

Maria Fordinari 04 10 2022	DAY		California			
Week Ending: 06-10-2023  Duration: 60mins	· · · · · · · · · · · · · · · · · · ·		Computing			
	Clara C	•		Introduction To Computing		
Class: B9 Content Standard:	Class S	Indicator:	Sub Str	and: Components		
B9.1.1.1 Identify parts of a Computer ar Technology Tools	ncept of Perceptual	Lesson: 2 of 2				
Performance Indicator: Learners can examine the concept of Pe	erceptual (	Computing		Core Compete CC8.2: CP6.1	encies:	
New words Perceptual Computin	•	Recognition, \	Voice Com	mand, Sensory Inp	out	
Reference: Computing Curriculum P.g	g. 40					
Activities For Learning & Assessm	ent			Resources	Progression	
Starter (5mins)  Display a brief video clip or animation to Computing in action – for instance, a congestures or voice commands without the	Pictures and videos	Discussing the concept of Perceptual Computing				
Ask learners to discuss in pairs what the computer is understanding user input.  Share performance indicators and intro-			y think the			
Main (35mins)						
Begin by explaining the overarching con emphasizing how computers or devices natural, human-like inputs.						
<ul> <li>Discuss the key features of Perceptual C</li> <li>Gesture recognition (computer movements)</li> <li>Voice command and recognition</li> <li>Facial recognition</li> <li>Multi-touch interactions, etc.</li> </ul>	s understa		body			
Highlight how these features differ from (keyboard, mouse).	n traditiona	al computer int	teractions			
Break learners into small groups and ass Perceptual Computing.	sign each g	group a specific	feature of			
Ask them to discuss and brainstorm por scenarios where their assigned feature v		• • •	tions or			
<ul> <li>Assessment</li> <li>I. What is Perceptual Computing?</li> <li>2. How does gesture recognition diffe methods?</li> <li>3. Name one potential application for</li> </ul>		•	·			

4. Why might facial recognition be a significant feature in Perceptual
Computing?
Reflection (10mins)
Summarize the main points of the lesson, emphasizing the evolution of
human-computer interaction and the potential benefits and challenges of
Perceptual Computing.
Use peer discussion and effective questioning to find out from learners
what they have learnt during the lesson.
Take feedback from learners and summarize the lesson.
Homework/Project Work/Community Engagement Suggestions
What is Perceptual Computing?
How does gesture recognition differ from traditional computer input methods?
Name one potential application for voice command in everyday life.
Why might facial recognition be a significant feature in Perceptual Computing?
Cross-Curriculum Links/Cross-Cutting Issues
None
Potential Misconceptions/Student Learning Difficulties
None

## FIRST TERM WEEKLY LESSON NOTES – B9

WEEK 2						
Week Ending: 13-10-2023	DAY:		Subject	Computing		
<b>Duration: 6</b> 0mins			Strand:	rand: Introduction To Computing		
Class: B9	Class	Size:	Sub Str	and: Components	Of Cor	mputers
Content Standard:  B9.1.1.1 Identify parts of a Computer and Technology Tools  Indicator:  B9.1.1.3 Discuss the uses of Output device as Wearable Displays, E-Paper, E-Books,						Lesson:
Performance Indicator: Learners can discuss the uses Displays, E-Paper, E-Books, K	Core Compete CC8.2: CP6.1	encies:				
New words Wearab	ole Display, E-Paper	, E-Books, Kindle	<b>:</b>			
Reference: Computing Curr	-					
Activities For Learning &	Assessment			Resources	Prog	ression
Display a collection of images of an E-Paper display (like the someone reading on a Kindle Ask students to discuss in pai they might be used in daily life.  Share performance indicators	ose in grocery store  rs what they think e.	e price tags), and these devices do	one of	Pictures and videos	uses devic Wear Displ	ays, E- <sup>-</sup> , E-Books,
Main (35mins)  Begin with a brief overview o	f what an "output c	device" is in the r	ealm of			
Introduce the concept using of features such as taking photo potential applications.	s, accessing informa	ation hands-free,	and its			
Explain the basics of E-Paper, mimics real paper. Highlight of types of watches.	common application	ns like price tags	or certain			
Describe the transition from the Kindle's features like adju reading, and storage of thous	stable text size, bac ands of books.	cklight for nightti	me			
Students to brainstorm in sm scenarios where these device			ns or			

#### Assessment

- What is a significant benefit of using Wearable Displays like Google Glass?
- 2. How does E-Paper mimic real paper and where might you commonly see it used?
- 3. What are some advantages of E-Books over traditional paper books?
- 4. How might devices like the Kindle impact the environment positively?

#### Reflection (10mins)

Recap the importance and versatility of modern output devices, noting their role in making our lives more convenient and potentially reducing our environmental footprint.

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.

#### Homework/Project Work/Community Engagement Suggestions

- What is a significant benefit of using Wearable Displays like Google Glass?
- How does E-Paper mimic real paper and where might you commonly see it used?
- What are some advantages of E-Books over traditional paper books?
- How might devices like the Kindle impact the environment positively?

#### **Cross-Curriculum Links/Cross-Cutting Issues**

None

#### Potential Misconceptions/Student Learning Difficulties

Week Ending: 13-10-2023	DAY:		Subject: Computing		
Duration: 60mins			Strand: Introduction To Computing		
Class: B9	Class Size:		Sub Strand: Components Of Computers		
Content Standard:		Indicator:		Lesson:	
B9.1.1.1 Identify parts of a Computer and Technology Tools		B9.1.1.1.4 Describe Storage Systems			
				2 of 2	

**Performance Indicator:** 

Learners can identify the various storage systems available, their functionalities, and implications of their use in our digital world.

**Core Competencies:** 

CC8.2: CP6.1

New words

Cloud Storage, Network Storage, Holographic Storage, Smart Card

Reference: Computing Curriculum P.g. 40

Activities For Learning & Assessment	Resources	Progression
Starter (5mins)  Display an image of a floppy disk, a CD, a USB drive, and a cloud symbol.  Ask students to discuss in pairs or small groups the evolution of storage over time and how each device or symbol represents storage.	Pictures and videos	Describing Storage Systems
Share performance indicators and introduce the lesson.		
Main (35mins)		
Begin with an overview of storage systems, from physical storage (like CDs, DVDs) to digital storage methods.		
Discuss network storage systems, how cloud storage fits into this, and other forms like smart cards and holographic storage.		
Divide students into groups, assigning each group a specific storage type (e.g., one group might research Google Drive while another focuses on smart cards).		
Using classroom resources like computers or tablets, groups should explore their assigned storage system, focusing on its primary functions, benefits, and drawbacks.		
Each group will present their findings briefly. Facilitate a discussion comparing the different storage methods, especially highlighting the pros and cons of cloud storage.		
<ol> <li>Assessment</li> <li>What is the primary difference between cloud storage and network storage?</li> <li>What is a specific use of a smart card in daily life?</li> <li>How does holographic storage differ from traditional storage methods?</li> <li>Name one advantage and one disadvantage of using cloud storage.</li> </ol>		

#### Reflection (10mins)

Recap the day's discussions, emphasizing the increasing importance of understanding and navigating various storage systems in our modern world.

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.

#### Homework/Project Work/Community Engagement Suggestions

- What is cloud storage, and how does it differ from local storage on your computer?
- Name one benefit and one drawback of using cloud storage.
- How does a smart card store information, and where might you encounter one in daily life?
- What makes holographic storage unique compared to other storage methods?

#### Cross-Curriculum Links/Cross-Cutting Issues

None

#### **Potential Misconceptions/Student Learning Difficulties**

## FIRST TERM WEEKLY LESSON NOTES – B9 WEEK 3

			VVEEK 3				
Week Ending: 20-	10-2023	DAY:		Subject	: Computing		
<b>Duration: 6</b> 0mins	1			Strand:	Introduction To Computing		
Class: B9		Class S	ize:	Sub Str	and: Components Of Computers		
Content Standard B9.1.1.2. Demonstra	onalization of the	Lesson:					
Performance Indicates Can explore		the comp	outer		Core Compete CC8.2: CP6.1	encies:	
New words	Personalization, De	esktop Icc	ons, Mouse Poi	nters, Wor	kspace		
Reference: Compu	ting Curriculum P.g.	42					
Activities For Lea	rning & Assessme	ent			Resources	Prog	gression
Starter (5mins)  Start with a quick portheir computer at homosome performance in the concept essential to make a subsequence of the computers.  Again, using a project mouse pointer's approximate performance in the computers.  Again, using a project mouse pointer's approximate performance in the computers.  Again, using a project mouse pointer's approximate performance in the computers.	ome, such as changing cussion about why the ndicators and introduced of personalization. Aspace, digital or physolal spaces.  For or shared screen ey experiment with a stor or shared screen earance.  Foose and change the erent options available ups, challenge learne	Ask learned ical, truly how to contanging and demonstrations of the learned ical and the lear	Ipaper or the set those specific esson.  ers why they the theirs. Relate their desktop is strate how to a sonalize their verse sonalize	nink it's this to their icons. cons on alter the puraging		impo perso their work will b chang icons mous to re perso and	erstand the rtance of conalizing computer espace and see pointers flect their conal tastes erences.

## Assessment I. What does personalization mean in the context of computers? 2. Why might someone want to change their desktop icons? 3. How can changing mouse pointers enhance your computer experience? 4. Name one benefit of personalizing your digital workspace.

#### Reflection (10mins)

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.

#### Homework/Project Work/Community Engagement Suggestions

- What does personalization mean in the context of computers?
- Why might someone want to change their desktop icons?
- How can changing mouse pointers enhance your computer experience?
- Name one benefit of personalizing your digital workspace

#### Cross-Curriculum Links/Cross-Cutting Issues

None

#### Potential Misconceptions/Learner Learning Difficulties

<b>Week Ending:</b> 20-10-2023	DAY:		Subject: Computing		
Duration: 60mins			Strand: Introduction To Computing		
Class: B9	Class Size:		Sub Strand: Components Of Computers		
Content Standard: Indica		Indicator:		Lesson:	
B9.1.1.2. Demonstrate the Use of the B9.1.1.2.2 Ident		B9.1.1.2.2 Identif	y and use file management		
Desktop		techniques (drive	ers and hardware)	I of 2	

Performance Indicator:Core Competencies:Learners can identify and use file management techniquesCC8.2: CP6.1: CC7.5 :CC7.3

Reference: Computing Curriculum P.g. 42

New words: Device Drivers, Plug-and-Play, Installation, Update, Delete

Activities For Learning & Assessment	Resources	Progression
Starter (5mins)	Pictures and	Understand the
Start the lesson by playing a muted video. Ask learners why there's no sound. Likely answers will be "The volume is down" or "The speakers are off."	videos	concept of device drivers, their importance, the
After checking those, introduce the idea: "What if the computer doesn't		basics of plug- and-play
know how to use the speakers? How does it communicate?"		devices, and wil
Share performance indicators and introduce the lesson.		be equipped with the knowledge to
Main (35mins)		install, update, or delete
Identify and explore the use of device drivers e. g. sound drivers and video graphic drivers		drivers.
<ol> <li>Explain plug-and-play devices.</li> <li>Demonstrate how to install, update or delete drivers.</li> </ol>		
Introduce the concept of device drivers and their function. Give specific examples, emphasizing sound drivers and video graphic drivers.		
Ask learners about their experiences, e.g., when a game didn't run because a graphics driver was outdated.		
Discuss what plug-and-play means. Show examples of such devices (e.g., USB drives, some headphones) and demonstrate how the computer automatically detects and often installs necessary drivers.		
Using a projector or shared screen, walk learners through the process of checking for driver updates, installing new drivers, and deleting outdated or unnecessary ones.		

Encourage learners to follow along on their computers, guiding them through each step. Assessment I. What is the primary function of a device driver? 2. What does "plug-and-play" mean in terms of devices and drivers? 3. Why might you need to update a driver? 4. What could be a potential problem if you delete a necessary driver? Reflection (10mins) Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson. Homework/Project Work/Community Engagement Suggestions What is the primary function of a device driver? What does "plug-and-play" mean in terms of devices and drivers? Why might you need to update a driver? • What could be a potential problem if you delete a necessary driver?

#### **Cross-Curriculum Links/Cross-Cutting Issues**

None

#### Potential Misconceptions/Student Learning Difficulties

## FIRST TERM WEEKLY LESSON NOTES – B9

#### WEEK 4

Week Ending: 27-10-2023 DAY: Subject: Computing						
Duration: 60mi	ins	l .		Strand:	Introduction To C	Computing
Class: B9		Class Si	ze:	Sub Str	and: Technology I	In The Community
the Community Performance I	ndicator: ntify various portable co		that can be so	lved with	Core Compete	I of 2 encies: and Collaboration
New words	Portable Computi	ng Device,	Impact, Integra	tion, Depe		, , ,
Reference: Con	mputing Curriculum Pg.	43				
Activities For	Learning & Assessmo	ent			Resources	Progression
before coming to Share performan Main (35mins) Brainstorm learn about. Examples: mobile Discuss the prim	"How many of you checo school? What did you need indicators and introduce indicators and introduce phones, smartwatches hary functions of these conto small groups, assign rainstorm and list ways	check?"  duce the le  nputing de  s, tablets, e  devices.  ing each a	esson. vices they use of	or know le device.	videos	problems in the community that can be solved with technolog
life. Example:	·		ned device affect	its daily		
Device Mobile Phones	How it affects daily lif Instant Communication Information Access, E Scheduling & Reminde	on, Naviga Intertainm	ent	graphy	_	
Smartwatches	Health Monitoring, N Operations, GPS & N	otification	s, Hands-free	5 F //		
Tablets	Reading & Research, I Entertainment, Portal	Education,				

Groups will share their findings. Discuss how life might be different without these devices, leading into a conversation about dependence on technology. Assessment I. Name two benefits of using a smartwatch. 2. How has the mobile phone changed the way we communicate? 3. Are there any drawbacks to being continuously connected through these devices? 4. How might these devices evolve in the next decade? Reflection (10mins) Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson. Homework/Project Work/Community Engagement Suggestions Name two benefits of using a smartwatch. How has the mobile phone changed the way we communicate? Are there any drawbacks to being continuously connected through these devices?

### How might these devices evolve in the next decade? Cross-Curriculum Links/Cross-Cutting Issues

None

#### Potential Misconceptions/Learner Learning Difficulties

<b>Week Ending:</b> 27-10-2023 <b>DAY:</b>				Subject: Computing		
Duration: 60mins				Strand:	Introduction To Computi	ng
Class: B9 Class S			ze:	Sub Strand: Technology In The Communit		
Content Standard:			Indicator:			Lesson:
B9.1.2.1. Demonstrate the Use of Technology in			B9.1.2.1.1. Evaluate problems in the community			
the Community			that can be solved with technology 2 c		2 of 2	
Performance Indicator:					Core Competencies:	
Learners can brainst	orm and discuss co	mmunity p	problems that can be Communication and Collab		laboration	
addressed or alleviat	ted using technology	<i>'</i> .			(CC), Digital Literacy (D	L)
New words	ds Solution, Innovation, Engagement, Sustainability					
Reference: Computing Curriculum P.g. 43						

Activities For Learning & Assessment	Resources	Progression
Starter (5mins)  Start by presenting a local community problem, e.g., "There's a lot of litter in our local park." Then ask: "How might technology help address this?"  Share performance indicators and introduce the lesson.	Pictures and videos	Evaluating problems in the community that can be solved with technology
Main (35mins)		
Brainstorm learners to list problems they've noticed in their community. Write down these problems on the board for reference. Example: Lack of Safe Recreational Spaces, Improper Waste Disposal:, etc.		
Divide learners into small groups, assigning each a specific community problem from the board.		
Groups will brainstorm possible technological solutions for their problem. After brainstorming, each group will share their problem and proposed tech solution.		
Discuss the feasibility of these solutions and what it would take to implement them. Encourage critical thinking about potential challenges and how they could be overcome.		
<ol> <li>Assessment</li> <li>Name one community problem and a potential tech solution discussed in class.</li> <li>How might technology help improve local transportation issues?</li> <li>What are potential challenges in implementing tech solutions in communities?</li> <li>How can the community be engaged in these tech-driven initiatives for better success?</li> </ol>		
Reflection (10mins)		

Us	se peer discussion and effective questioning to find out from learners
wł	hat they have learnt during the lesson.
Ta	ake feedback from learners and summarize the lesson.
Н	omework/Project Work/Community Engagement Suggestions
•	Name one community problem and a potential tech solution discussed in class.
•	How might technology help improve local transportation issues?
•	What are potential challenges in implementing tech solutions in communities?
•	How can the community be engaged in these tech-driven initiatives for better success?
Cı	ross-Curriculum Links/Cross-Cutting Issues
No	one
Po	otential Misconceptions/Learner Learning Difficulties
No	one .

## FIRST TERM WEEKLY LESSON NOTES WEEK 5

			VVLLIN 3				
Week Ending: 03	-11-2023	DAY:		Subject	Computing		
Duration: 60mins				Strand: Introduction To Comput			ng
Class: B9 Cla			ze:	Sub Str	and: Technology	In The C	Community
Content Standard: B9.1.2.1. Demonstrate the Use of Technology in the Community				valuate problems in the community		Lesson: 2 of 2	
Performance Ind Learners can brains addressed or allevia	Core Compete Communication (CC), Digital Lite	and Col					
New words	Solution, Innovat	tion, Engagei	ment, Sustainab	ility			
Reference: Comp	uting Curriculum F	P.g. 43					
Activities For Le	arning & Assessr	ment			Resources	Prog	ression
Starter (5mins)  Start by presenting a local community problem, e.g., "There's a lot of litter in our local park." Then ask: "How might technology help address this?"  Share performance indicators and introduce the lesson.					Pictures and videos	comr	ating ems in the nunity that e solved technology
Main (35mins)  Brainstorm learners Write down these				munity.			
Example: Lack of Sa Divide learners into problem from the b	small groups, assi						
Groups will brainste After brainstorming solution.					n		
Discuss the feasibili implement them. Er how they could be	ncourage critical th						
Assessment  I. Name one comin class.  2. How might tech  3. What are potentials are potentials are potentials.	nnology help impro	ove local trai	nsportation issu	ies?			

communities?

4. How can the community be engaged in these tech-driven initiatives for
better success?
Pollogian (10mins)
Reflection (10mins)
Use peer discussion and effective questioning to find out from learners
what they have learnt during the lesson.
Take feedback from learners and summarize the lesson.
Homework/Project Work/Community Engagement Suggestions
Name one community problem and a potential tech solution discussed in class.
How might technology help improve local transportation issues?
What are potential challenges in implementing tech solutions in communities?
How can the community be engaged in these tech-driven initiatives for better success?
Cross-Curriculum Links/Cross-Cutting Issues
None
Potential Misconceptions/Learner Learning Difficulties
None

Week Ending: 03-	11-2023	I-2023 <b>DAY</b> :		Subject	Subject: Computing	
<b>Duration: 6</b> 0mins				Strand:	Introduction To Computi	ng
Class: B9 Class Si			ze:	Sub Strand: Technology In The Community		Community
Content Standard: Indicator:			Indicator:			Lesson:
B9.1.2.1. Demonstrate the Use of Technology in			B9.1.2.1.2. Propose solutions to the problems			
the Community			identified		I of 2	
Performance Indi	Performance Indicator:				<b>Core Competencies:</b>	
Learners can propos	se tech-based solution	ons to add	ress specific co	mmunity	Communication and Col	aboration
challenges.					(CC), Digital Literacy (D	L)
New words Technology, Solution, Community, Innovation						

Reference: Computing Curriculum Pg. 43

Activities For Learning & Assessment	Resources	Progression
Starter (5mins)	Pictures and videos	Proposing technological
Show a brief video or presentation that highlights a community problem solved with technology (e.g., a mobile app addressing waste collection).		solutions to the problems identified in the
Ask learners: "What problem was addressed in the video? How did technology help solve it?"		community.
Share performance indicators and introduce the lesson.		
Main (35mins)		
Revise with learners to brainstorm and list problems they observe in their community.  Each group presents their list to the class, and common problems are noted.		
Guide learners to propose solutions to the problems identified. Using the list of common problems, groups will now brainstorm and propose technological solutions to these problems. For example, if one problem is "lack of timely public transportation," a solution could be "a real-time bus tracking app."		
Groups should consider the feasibility of their solutions, potential challenges, and the impact on the community.  Each group will then present their tech-based solutions to the class.		
Assessment  I. Name one problem in the community you discussed today.  2. How can technology be a powerful tool in solving community challenges?  3. Provide an example of a technological solution to a community problem you've learned about today.		

4. Why is it important to ensure that technological solutions are accessible	
to everyone in the	
,	
Reflection (10mins)	
Use peer discussion and effective questioning to find out from learners	
what they have learnt during the lesson.	
,	
Take feedback from learners and summarize the lesson.	
Highlight the significance of technology in modern problem-solving and the	
potential it holds for community betterment. Encourage learners to stay	
curious and consider tech-based solutions to challenges they encounter in	
their lives.	
Homework/Project Work/Community Engagement Suggestions	,
Ask learners to interview family members or neighbors about problems to	hey face in the community that
might be addressed with technology.	,
<ul> <li>Learners can then draft a brief proposal on how they would tackle one of</li> </ul>	f these problems using a tech
solution.	6 m m
Cross-Curriculum Links/Cross-Cutting Issues	
None	
Potential Misconceptions/Learner Learning Difficulties	
None	
INOTIC	

## FIRST TERM WEEKLY LESSON NOTES WEEK 6

			AAEEK O				
Week Ending: 10-	11-2023	DAY:		Subject	: Computing		
<b>Duration: 6</b> 0mins	-			Strand: Introduction To Computing		ng	
Class: B9		Class Si	ize:	Sub Str	and: Technology I	n The C	Community
Content Standard B9.1.2.1. Demonstra the Community	d: ate the Use of Techno	Indicator: B9.1.2.1.2. Pro identified	ppose solu	tions to the proble	ems	Lesson:	
Performance Indi	icator: se tech-based solutio	ns to add	ress specific co	mmunity	Core Compete Communication a (CC), Digital Lite	and Col	
New words	Technology, Solution	on, Comn	nunity, Innovatio	on			
Reference: Compu	uting Curriculum Pg. 4	43					
<b>Activities For Lea</b>	arning & Assessme	nt			Resources	Prog	ression
Ask learners: "What technology help solv	or presentation that hogy (e.g., a mobile aport problem was addrested it?"	p address	ing waste collect	ction).	Pictures and videos	soluti probl ident	ological ons to the
Main (35mins)							
Revise with learners community.	s to brainstorm and li	st proble	ms they observ	e in their			
Each group presents noted.	s their list to the class	s, and cor	mmon problems	are			
Guide learners to propose solutions to the problems identified. Using the list of common problems, groups will now brainstorm and propose technological solutions to these problems. For example, if one problem is "lack of timely public transportation," a solution could be "a real-time bus tracking app."							
challenges, and the i	sider the feasibility of impact on the community present their tech-b	ınity.	•				

<u>Assessment</u>

1. Name one problem in the community you discussed today.

2. How can technology be a powerful tool in solving community challenges?

- 3. Provide an example of a technological solution to a community problem you've learned about today.
- 4. Why is it important to ensure that technological solutions are accessible to everyone in the

#### Reflection (10mins)

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.

#### Homework/Project Work/Community Engagement Suggestions

- Ask learners to interview family members or neighbors about problems they face in the community that might be addressed with technology.
- Learners can then draft a brief proposal on how they would tackle one of these problems using a tech solution.

#### **Cross-Curriculum Links/Cross-Cutting Issues**

None

#### Potential Misconceptions/Learner Learning Difficulties

Week Ending: 10-11-2023	DAY:		Subject	: Computing	
Duration: 60mins		Strand:	Introduction To Comput	ing	
Class: B9	ze:	Sub Str	and: Technology In The	Community	
Content Standard: B9.1.2.1. Demonstrate the Use of Techn	Indicator: B9.1.2.1.3. De	sign the so	olution selected	Lesson:	
the Community  Performance Indicator:			Core Competencies:		
Learners can design technological solutions to address problems th				Communication and Co	llaboration

identified in their community. (CC), Digital Literacy (DL) New words Technology, Solution, Community, Innovation, Feasibility, Impact

Reference: Computing Curriculum Pg. 43

Activities For Learning & Assessment	Resources	Progression
Starter (5mins)  Show a short video or a news clip of a problem a community faced and the technological solution they implemented.  Ask learners to discuss how technology was useful in addressing that	Pictures and videos	Proposing technological solutions to the problems identified in the community.
problem.  Share performance indicators and introduce the lesson.		
Main (35mins)		
In groups, learners brainstorm and list down problems they observe in their community.		
Each group presents their list to the class.  Common problems are highlighted and noted down.		
Using the common problems list, each group now brainstorms potential tech-based solutions.		
Guide the learners to think about feasibility, potential challenges, and the potential impact of their proposed solutions.		
Once solutions are brainstormed, each group chooses one solution to focus on.  They'll design or outline the solution in more detail. This can include drawing a prototype, outlining how it works, or explaining the benefits.		
Each group presents their designed technological solution, explaining the problem it addresses, how it works, its feasibility, potential challenges, and its potential impact on the community.		

# Assessment 1. What is one problem your group identified in the community? 2. Describe the technological solution your group designed. 3. What is one potential challenge your solution might face? 4. How will your solution have a positive impact on the community? Reflection (10mins) Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson. Homework/Project Work/Community Engagement Suggestions • What is one problem your group identified in the community? • Describe the technological solution your group designed. • What is one potential challenge your solution might face? • How will your solution have a positive impact on the community?

**Cross-Curriculum Links/Cross-Cutting Issues** 

Potential Misconceptions/Learner Learning Difficulties

None

## FIRST TERM WEEKLY LESSON NOTES WEEK 7

Week Ending: 17-	-11-2023 <b>DAY:</b>		Subject: Computing			
<b>Duration: 6</b> 0mins		Strand:	Introduction To Computi	ng		
Class: B9 Class Siz		ze:	<b>Sub Strand:</b> Health & Safety in the Use of ICT Tools		e Use of	
Content Standard: B9.1.3.1. Demonstrate How to Apply Health and Safety Measures in the Use ICT Tools			Indicator:  89   3     Evaluate health issues at workstations		Lesson:	
Performance Indicator:  Learners can evaluate potential health issues associates designed workstations and recognize the benefits of				•	Core Competencies: Communication and Coll (CC), Digital Literacy (D	
New words Ergonomics, Workstation, Health Issues, Posture						

Reference: Computing Curriculum Pg. 44

Activities For Learning & Assessment	Resources	Progression
Starter (5mins)	Pictures and videos	Evaluating health issues at
Show learners pictures of both a poorly set up workstation and an ergonomically designed one.		workstations
Ask them to identify what's wrong with the poorly set up workstation and what improvements the ergonomic one offers.		
Share performance indicators and introduce the lesson.		
Main (35mins)		
Engage learners in a discussion about potential health issues that can arise from using a poorly designed workstation. This might include back pain, eye strain, repetitive strain injuries, etc.		
Ask learners if they or someone they know has ever experienced discomfort or pain due to a poor workstation setup.		
Present the ergonomic tools, such as an ergonomic keyboard and paper stand.		
Discuss their design features and how they help in preventing health issues.		
If possible, have an actual ergonomic keyboard and paper stand for learners to examine and try out.		



Let learners compare them to traditional tools and discuss their observations.

Divide learners into small groups. Each group is given a scenario of a person experiencing a health issue due to their workstation.

They should discuss and present what ergonomic changes or tools they would recommend to help alleviate the issue.

#### Assessment

- 1. What is ergonomics and why is it important for workstations?
- 2. Name two health issues that might arise from a poorly set up workstation.
- 3. How does an ergonomic keyboard differ from a regular one?
- 4. Why might someone use a paper stand at their workstation?

#### Reflection (10mins)

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.

#### Homework/Project Work/Community Engagement Suggestions

- What is ergonomics and why is it important for workstations?
- Name two health issues that might arise from a poorly set up workstation.
- How does an ergonomic keyboard differ from a regular one?
- Why might someone use a paper stand at their workstation?

#### **Cross-Curriculum Links/Cross-Cutting Issues**

None

#### Potential Misconceptions/Learner Learning Difficulties

<b>Week Ending:</b> 17-11-2023	DAY:		Subject: Computing		
<b>Duration: 6</b> 0mins		Strand: Introduction To Computi	ng		
Class: B9	Class Si	ze:	<b>Sub Strand:</b> Health & Safety in the Use of ICT Tools		
Content Standard: B9.1.3.1. Demonstrate How to Apply Health and Safety Measures in the Use ICT Tools		Indicator: B9.1.3.1.1 Eval	uate health issues at workstations	Lesson:	

#### **Performance Indicator:**

Learners can evaluate the importance of proper lighting when working with computers and learn to set up an ideal lighting system to prevent eye strain and other health issues.

#### Core Competencies:

Communication and Collaboration (CC), Digital Literacy (DL)

**New words** Glare, Ambient Light, Eye Strain, Ergonomic Lighting

Reference: Computing Curriculum Pg. 44

Activities For Learning & Assessment	Resources	Progression
Starter (5mins)  Begin with a simple demonstration. In a dim room, turn on a bright lamp positioned directly in front of the computer screen, creating glare.	Pictures and videos	Evaluating health issues at workstations
Ask learners to observe and describe how comfortable it feels looking at the screen. This will provide a tactile understanding of bad lighting practices.		
Share performance indicators and introduce the lesson.		
Main (35mins)		
Discuss with learners the problems they observed from the starter activity. Introduce the term "eye strain" and explain other symptoms like headaches, dry eyes, etc.		
Highlight the long-term effects of working with poor lighting.		
Adjust the room's ambient light to a comfortable level. Position the computer monitor so that windows and other light sources are to the side, rather than in front or behind it.		
Introduce the concept of "task lighting." Demonstrate using a desk lamp that provides light to the workspace but doesn't create glare on the screen.		
Discuss the benefits of adjustable or dimmable lights and the advantage of using screen filters or monitor hoods in very bright environments.		
If available, set up multiple lighting scenarios in different parts of the room (e.g., a workstation near a window, one under a bright overhead light, one using only task lighting).		

Allow learners to rotate through these stations, observing which setup feels the most comfortable and why.

Engage learners in a discussion on the benefits of natural light compared to artificial light. Emphasize the importance of breaks and looking away from the screen regularly, especially when working in non-ideal lighting conditions.

#### Assessment

- I. Why is glare on a computer screen problematic?
- 2. How should a computer monitor be positioned relative to windows or bright light sources?
- 3. What is "task lighting," and why is it beneficial?
- 4. Why is natural light preferable when working on a computer?

#### Reflection (10mins)

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.

#### Homework/Project Work/Community Engagement Suggestions

- Why is glare on a computer screen problematic?
- How should a computer monitor be positioned relative to windows or bright light sources?
- What is "task lighting," and why is it beneficial?
- Why is natural light preferable when working on a computer?

#### **Cross-Curriculum Links/Cross-Cutting Issues**

None

#### Potential Misconceptions/Learner Learning Difficulties

## FIRST TERM WEEKLY LESSON NOTES WEEK 8

			WEEK 8				
Week Ending: 24	-11-2023	DAY:		Subject:	t: Computing		
<b>Duration: 6</b> 0mins		Strand:		trand: Introduction To Computing			
Class: B9		Class Si	ize:	<b>Sub Strand:</b> Health & Safety in the Use of ICT Tools			e Use of
B9.1.3.1. Demonstra Safety Measures in t	ate How to Apply H	ealth and	Indicator: B9.1.3.1.1 Eval	r: Evaluate health issues at workstations			Lesson: 2 of 2
	te the importance of Hearn to set up an i			n working  Core Competencies:  Communication and Collabora			
New words	Glare, Ambient Lig	ght, Eye St	rain, Ergonomic	Lighting			
Reference: Compo	uting Curriculum Pg.	44					
Activities For Lea	arning & Assessmo	ent			Resources	Prog	gression
Ask learners to obs the screen. This wil	demonstration. In a in front of the composite and describe he provide a tactile un indicators and introduced	uter scree ow comfor derstandir	n, creating glare rtable it feels lo ng of bad lightin	e. oking at	videos		h issues at estations
Introduce the term dry eyes, etc.	rs the problems they "eye strain" and exp erm effects of worki	lain other	symptoms like				
Position the compu	mbient light to a cor ter monitor so that than in front or behir	windows a		sources are			
Introduce the concept of "task lighting." Demonstrate using a desk lamp that provides light to the workspace but doesn't create glare on the screen.							
Discuss the benefits of adjustable or dimmable lights and the advantage of using screen filters or monitor hoods in very bright environments.							

If available, set up multiple lighting scenarios in different parts of the room (e.g., a workstation near a window, one under a bright overhead light, one using only task lighting).

Allow learners to rotate through these stations, observing which setup feels the most comfortable and why.

Engage learners in a discussion on the benefits of natural light compared to artificial light. Emphasize the importance of breaks and looking away from the screen regularly, especially when working in non-ideal lighting conditions.

#### Assessment

- I. Why is glare on a computer screen problematic?
- 2. How should a computer monitor be positioned relative to windows or bright light sources?
- 3. What is "task lighting," and why is it beneficial?
- 4. Why is natural light preferable when working on a computer?

#### Reflection (10mins)

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.

#### Homework/Project Work/Community Engagement Suggestions

- Why is glare on a computer screen problematic?
- How should a computer monitor be positioned relative to windows or bright light sources?
- What is "task lighting," and why is it beneficial?
- Why is natural light preferable when working on a computer?

#### **Cross-Curriculum Links/Cross-Cutting Issues**

None

#### Potential Misconceptions/Learner Learning Difficulties

Week Ending: 24-11-2023	DAY:		Subject	Subject: Computing		
Duration: 60mins		Strand: Introduction To Computing				
Class: B9	Class Si	Size: Sub Strand: Health & Safety in the U		e Use of		
	ICT Tool		ls			
Content Standard: Indi		Indicator:	Indicator: Lesson		Lesson:	
B9.1.3.1. Demonstrate How to Apply Health and		B9.1.3.1.2 Evaluate Safety Risk Reduction issues at				
Safety Measures in the Use ICT Tools	he Use ICT Tools workstations		I of 2			
Performance Indicator:			Core Competencies:			
Learners can assess safety risk reduction issues at workstations, fo			ocusing	Communication and Col	laboration	

on heat generation by machines like computers and printers, and ways to reduce excess heat.

Communication and Collaboration

(CC), Digital Literacy (DL)

Safety risk reduction, Workstation, Heat generation, Excess heat **New words** 

Reference: Computing Curriculum Pg. 44

Activities For Learning & Assessment	Resources	Progression
Starter (5mins)	Pictures and videos	Evaluating health issues at
Begin with a real-world scenario: "Think about a time when you felt your computer or another electronic device was getting too hot. What did you do about it? Share your experiences."	Videos	workstations
Encourage learners to discuss their encounters with hot electronic devices.		
Share performance indicators and introduce the lesson.		
Main (35mins)		
Explain the importance of identifying safety risk reduction issues at workstations, focusing on the potential dangers associated with excess heat generated by machines.		
Discuss the heat generated by common machines like computers, printers, and other electronic devices.		
Explain that excessive heat can not only cause discomfort but also pose risks to the machines and potentially lead to malfunctions or damage.		
Engage learners in a discussion about strategies to reduce excess heat from machines.		
Encourage them to brainstorm and share ideas like maintaining proper ventilation, avoiding overuse, and keeping machines clean and dust-free.		
Provide a practical activity where learners evaluate a workstation with electronic devices.		

Ask them to identify potential heat-related safety risks and suggest measures to mitigate them.

#### Assessment

- I. Why is it important to address safety risk reduction issues at workstations?
- 2. How does excess heat from electronic devices impact both comfort and safety?
- 3. What are some strategies to reduce excess heat from machines at workstations?
- 4. In the hands-on assessment, identify and describe a potential heat-related safety risk at a workstation, and propose a measure to reduce this risk.

#### Reflection (10mins)

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Take feedback from learners and summarize the lesson.

#### Homework/Project Work/Community Engagement Suggestions

- Why is it important to address safety risk reduction issues at workstations?
- How does excess heat from electronic devices impact both comfort and safety?
- What are some strategies to reduce excess heat from machines at workstations?
- In the hands-on assessment, identify and describe a potential heat-related safety risk at a workstation, and propose a measure to reduce this risk.

#### **Cross-Curriculum Links/Cross-Cutting Issues**

None

#### Potential Misconceptions/Learner Learning Difficulties

## FIRST TERM WEEKLY LESSON NOTES WEEK 9

Week Ending: 30-	11-2023	DAY:	Subject:	ubject: Computing		
<b>Duration: 6</b> 0mins			Strand:	rand: Productivity Software		
Class: B9		Class Size:		Sub Strand: Introduction to Word Processing		
B9.2.1.1 Demonstrat Microsoft Word (Mo	te How to Use ultimedia)		onstrate how to	o add pictures, inser and print screen	Lesson:	
Performance Indi Learners can explorand screen clipping i	e and understand th	•	Core Competencies:			
New words	Clip Art, Screensh	ot, Screen Clipping				
Reference: Compu	iting Curriculum Pg.	45				
A ./* */* = 1				In	I <b>n</b>	
Activities For Lea	rning & Assessme	ent		Resources	Progression	
with Mic			Computers with Microsoft Office installed	Demonstrating how to add pictures, insert a screenshot		
Share performance indicators and introduce the lesson.  Main (35mins)				and screen clipping and print screen		
Guide learners to open Microsoft Word or PowerPoint. Navigate to the "Insert" ribbon.						
Explore the Clip Art feature, searching for relevant images. Insert a clip art image into the document or slide.						
Discuss the importance of capturing specific content from the screen.  Explore the "Screenshot" option in the "Insert" ribbon.						
Take a screenshot of a selected area on the computer screen. Insert the screenshot into the document or slide.						
Discuss scenarios where capturing a specific portion of the screen is useful.  Explore the "Screen Clipping" option in the "Insert" ribbon.						
Take a screen clippii	ng and insert it into	the document or sli	de.			
Reflection (10mins	)					

Use peer discussion and effective questioning to find out from learners	ļ		
what they have learnt during the lesson.	ļ		
what they have realing the research			
<b>T</b> 1	ļ		
Take feedback from learners and summarize the lesson.			
Homework/Project Work/Community Engagement Suggestions			
• What is clip art, and how can it enhance the visual appeal of a document	or presentation?		
• Explain the difference between a screenshot and a screen clipping. When might you use one over the other?			
• How can visual elements like clip art, screenshots, and screen clippings improve the overall communication			
of information in a document or presentation?	•		
• Demonstrate how to insert a clip art image, a screenshot, and a screen cl	ipping into a Micr	osoft Word	
document or PowerPoint slide.	0		
Cross-Curriculum Links/Cross-Cutting Issues			
None			
Potential Misconceptions/Learner Learning Difficulties			

Week Ending: 30-	11-2023	DAY:	Subject: Computing		
Duration: 60mins Strand: Productivity Software					
Class: B9		Class Size:	Sub Strand: Introduction to Word		d
	_		Processin	18	
Content Standard	<b>i</b> :	Indicator:	Indicator: Les		Lesson:
B9.2.1.1 Demonstra	te How to Use	B9.2.1.1.1. Demonstrate how to add pictures, insert a			
Microsoft Word (M	ultimedia)	screenshot and scree	screenshot and screen clipping and print screen		2 of 2
Performance Indi	cator:	•	Core Competencies:		
Learners can explor	plore and understand the features of clip art, scre			screenshot. Communication and Collaboration	
and screen clipping i			(CC), Digital Literacy (DL)		L)
New words	Print Screen Key, Screen Capture, Insert, Crop				
Reference: Computing Curriculum Pg. 45					

Activities For Learning & Assessment	Resources	Progression
Starter (5mins)	Computers with Microsoft	Demonstrating how to add
Revise with learners on the previous lesson.	Office installed	pictures, insert
Share performance indicators and introduce the lesson.		and screen clipping and
Main (35mins)		print screen
Explain the location and function of the Print Screen key on the keyboard. Discuss the difference between capturing the entire screen and capturing an active window.		
Show a brief demonstration of using the Print Screen key.		
Have learners open Microsoft Word. Instruct them to use the Print Screen key to capture the entire screen and an active window.		
Guide them in pasting the captured images into the Word document.		
Teach learners how to use the cropping tool in Microsoft Word. Allow learners to crop and format their captured images.		
Facilitate a class discussion on the benefits of using screen captures in documents and presentations.		
Encourage learners to share their experiences and insights.		
Reflection (10mins)		

Use peer discussion and effective questioning to find out from learners				
what they have learnt during the lesson.				
what they have learne during the lesson.				
Take feedback from learners and summarize the lesson.				
Homework/Project Work/Community Engagement Suggestions				
What is the primary function of the Print Screen key?				
• Explain the difference between capturing the entire screen and capturing an active window using the Print				
Screen key.				
• How can the cropping tool in Microsoft Word enhance the appearance of a captured image?				
• In what situations might using the Print Screen key be beneficial for creating school projects or				
presentations?				
Cross-Curriculum Links/Cross-Cutting Issues				
None				
Potential Misconceptions/Learner Learning Difficulties				