#### FIRST TERM WEEKLY LESSON NOTES

#### WEEK I

Week Ending: 06-10-2023 Day:				Subject: Care	er Technolo	ogy	
Duration: 60MINS				Strand: Healt	h & Safety		
Class: B9		Class Size	e:	Sub Strand: Personal Hygiene And Food Hygiene			And Food
B9.1.1.1 Demonstrat personal and food hy	te skills that relate to ygiene to self  Indicator:  B9.1.1.1.1 Practice good grooming				oming		Lesson:
Performance Indica Learners can underst personal hygiene.		ncept of go	od grooming ar	nd relate it to	Core Con CP 6.5: CI		encies: Cl 5.2: Cl 6.10:
Reference: Career T	echnology	Curriculum	Pg. 78				
New words: Groom	ing, Hygiene	e, Appearan	nce, Self-care				
Phase/Duration	Learners A					Res	sources
PHASE I: STARTER	Ask learne	Display before-and-after photos of individuals — one ungroomed and one groomed.  Ask learners to describe the differences and discuss their initial reactions to each photo.					
PHASE 2: NEW LEARNING	Share performance indicators with learners.  Lead a class discussion defining 'good grooming' and 'personal hygiene.' Ask probing questions to ensure understanding.  E.g.: Good grooming means practising good hygiene techniques and general composure.  Use visual aids, videos, or illustrations where necessary to further illustrate the concept.  Divide learners into small groups.  Ask each group to brainstorm and list good grooming practices they are aware of or practice daily.  E.g., proper sitting, proper walking, proper talking, proper eating manners and wearing neat clothes.  After the discussion, have a representative from each group share their findings.  Assessment  1. Define good grooming in your own words.  2. How is personal hygiene related to good grooming?				hniques ssary to ing er eating ch group		tures and rts of food

	4. Why do you think it's essential to maintain a good grooming routine?
PHASE 3:	Emphasize the role of good grooming in personal health,
REFLECTION	well-being, and presentation. Encourage learners to reflect on their grooming habits and consider implementing any practices they've learned.
	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.

Week Ending: 06-1	Veek Ending: 06-10-2023 Day:			Subject: Care	er Techno	logy	
Duration: 60MINS				Strand: Healt	h & Safety		
Class: B9		Class Size	e:	Sub Strand: F Hygiene	Personal Hy	/giene	And Food
personal and food h Performance Indica Learners can recogn demonstrate approp	emonstrate skills that relate to ad food hygiene to self  ce Indicator: B9.1.1.1.1 Practice good grooming ce Indicator: Core Com						Lesson: 2 of 2 encies: CI 5.2: CI 6.10:
New words: Routine	e, Self-estee	m, Cleanlin	ess, Presentatio	on			
Phase/Duration PHASE I: STARTER	Start with grooming teeth?" or engage the	Learners Activities  Start with a fun quiz or poll asking learners about their daily grooming practices, like "How often do you brush your teeth?" or "How often do you change your socks?" This will engage them and set the context for the lesson.  Share performance indicators with learners.					sources
PHASE 2: NEW LEARNING	Each grougrooming interaction E.g., Enhant Conclude from each Organize correct has method, or Rotate lead practice a Invite a lost to provide Write shot and around Assessme I. Why 2. How one's 3. Description of the correct has method, or the correct has method around the correct has method and around the correct has method around the correct has method and around the correct has method and the correct has method around the correct has method and the correct has method around the corr	— its impactors, and opposes one's powers one's powers one's powers one in group.  a few simple and washing or how to continue through the call profession expert despite the classification of the cl	the broader in the tron health, sell contunities. The broader in the portunities. The properties of the demonstration of the properties of	n, allowing then ning practice. I dentist or hair feasible. I feasible and tag the state of the personal was ning practices in a you learned to	ionships oughts instance, hing n to dresser, nem in vell-being? mpact		tures and rts of food

PHASE 3: REFLECTION	Sum up the lesson by emphasizing the significance of regular grooming routines for both personal and social reasons.  Encourage learners to reflect on their routines and consider areas for improvement.	
	Take feedback from learners and summarize the lesson.	
	Ask learners how the lesson will benefit them in their daily lives.	

Week Ending: 13-10	Ending: 13-10-2023 Day: Subject: Career Technology			ogy (	HE)		
Duration: 60MINS				Strand: Healt	h & Safety		
Class: B9		Class Size	e:	Sub Strand: P Hygiene	Personal Hyg	giene	And Food
Content Standard: B9.1.1.1 Demonstrat personal and food hy			Indicator: B9.1.1.1.2: Ob hygiene practi	oserve appropri ces.	ate food		Lesson:
Performance Indicat Learners can underst recognize its importa	tand the bas			e and	Core Con CP 6.5: CI		encies: Cl 5.2: Cl 6.10:
Reference: Career T	echnology	Curriculum	Pg. 78				
New words: Hygiene	e, Contamin	ation, Bacte	eria, Sanitize				
Phase/Duration	Learners /	A ctivities			Т	Roo	ources
PHASE I:			es of two kitch	ons: one close s	and the	res	oui ces
STARTER	other visit	•	es of two kitch	ens. One clean a	and the		
	Ask them which kitchen they would feel safer eating food from and why.  Share performance indicators with learners.						
PHASE 2: NEW LEARNING	Introduce the term 'food hygiene' and explain its importance in daily life.  Highlight the risks associated with poor food hygiene, like food poisoning, contamination, and the spread of diseases.  Divide learners into small groups. Provide each group with a list of scenarios or practices related to food handling and preparation. Some can be appropriate, while others are not. Ask each group to discuss and categorize each scenario as "safe" or "unsafe" based on their current knowledge.  Outline the essential food hygiene practices. This could include washing hands, using separate cutting boards for raw and cooked foods, ensuring food is stored at the right temperature, etc.  Compare these practices with the scenarios from the group activity, correcting any misconceptions.  Assessment  What is meant by the term "food hygiene"?						

	Describe one crucial food hygiene practice you learned	
	today.	
PHASE 3:	Emphasize the individual responsibility each learner has in	
REFLECTION	ensuring food hygiene, not just in a professional setting like a restaurant, but also at home. Challenge them to be more mindful and observe these practices in their daily life.	
	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.	

Week Ending: 13-10	10-2023 Day: Subject: Career Technol					logy (	HE)
Duration: 60MINS				Strand: Health & Safety			
Class: B9		Class Size	e:	Sub Strand: F	Personal An	d Wo	orkshop Safety
	Content Standard: B9.1.2.1 Demonstrate skills that relate to personal, workshop and laboratory safety  Indicator: B9.1.2.1.1: Describe procedures for reporting accidents and unsafe practices school and in the laboratory/ workshop						Lesson: 2 of 3
Performance Indicator:  Learners can understand the importance of safety in the food/sewing laboratory and know the procedures to report any accidents or unsafe practices they observe.  Core Core Core Core Core Core Core Core						encies: Cl 5.2: Cl 6.10:	
Reference: Career T	echnology	Curriculum	n Pg. 79				
New words: Safety P	rotocol, Inc	cident Repo	ort, Hazard, Pre	ventative Meas	ures		
Phase/Duration	Learners A	A ctivities				Ros	ources
PHASE I:			few scenarios i	n the food/sew	ing	1/62	Oui CES
STARTER	Display pictures of a few scenarios in the food/sewing laboratory - some depicting safe practices and others showcasing unsafe ones.  Ask learners: "Identify which practices are unsafe and explain why."						
	Share per	formance ii	ndicators with I	earners.			
PHASE 2: <b>NEW</b>			pt of safety in a		b. Why is	Pict	ures and
LEARNING	it so cruci	al?				chai	rts of food
	Cleaning A ingested a skin or ey Gas Le flamma . Sharp a cuts.  Hot Su cause L Electric ground . Slips, T can lea can lea can lea can lea . Raw In sometin	Agents: Mai and can be I es. aks: Natural able and haza Objects: Knive orfaces & Liquitan orfaces & Liquitan and Equipmen ed or damag frips, and Fall and to accident Objects: Droj aces can lead I Food: Consulant of to foodborg	pping or improperl to injuries. ıming or handling s	stances are toxicome in contact end for cooking car her cutting tools co- boiling liquids, or hock from improp tered ingredients, by handling heavy p spoiled or contamic	t with the  n be  an cause  hot oil can  erly  or clutter  bots and  inated food  can		
	practices.	•	res for reporting the importance of the importan	-			

	Take feedback from learners and summarize the lesson.	
REFLECTION	from learners what they have learnt during the lesson.	
PHASE 3:	Use peer discussion and effective questioning to find out	
	Who should you report to if you notice an unsafe practice in the lab?	
	accident in the lab?	
	What is the first thing you should do if you notice a spill or	
	What is one common hazard in a food/sewing laboratory?	
	food/sewing lab immediately?	
	Why is it essential to report an unsafe practice in the	
	Assessment	
	practice and goes unrough the reporting process.	
	Role-play a scenario where a learner notices an unsafe practice and goes through the reporting process.	
	the subsequent actions taken.	
	<ul> <li>ensure safety.</li> <li>Provide Feedback: Inform staff about the incident's details and</li> </ul>	
	Conduct Safety Audits: Regularly check kitchen practices to	
	findings, introduce measures to prevent future occurrences.	
	• Implement Safety Measures: Based on the investigation's	
	bodies for severe incidents.	
	Report Upwards: Notify higher organizational levels or regulatory	
	<ul> <li>Investigation: Determine the cause of the incident by reviewing procedures and interviewing witnesses.</li> </ul>	
	possible.	
	Photographic Evidence: Take photos of the accident scene if	
	the event, individuals involved, injuries, and corrective actions taken.	
	Document the Incident: Complete an accident report detailing	
	Isolate Hazard Area: Mark or section off any dangerous areas resulting from the accident.	
	Notify Supervisors: Inform the person in charge promptly.	
	aid if needed. If severe, seek medical help.	
	• Immediate Action: Ensure everyone's safety and administer first	

Class B9   Class Size:	Week Ending: 13-10-	ding: 13-10-2023 Day: Subject: Career Techno					logy (	(PT)
Content Standard: B9.1.2.1 Demonstrate skills that relate to personal, workshop and laboratory safety  Performance Indicator: Learners can understand the unique risks of a blockwork site and the importance of safety protocols, as well as the procedures for reporting any unsafe practices any unsafe practices  Reference: Career Technology Curriculum Pg. 79  New words: Construction Safety, Safety Gear, Site Supervisor, Hazard Assessment  Phase/Duration  Phase/Duration  Phase I: Show a brief video clip of a busy construction site, preferably with some clear safety violations.  Ask learners: "What did you observe? Which practices seemed unsafe to you?"  Share performance indicators with learners.  PHASE 2: NEW  LEARNING  Discuss the inherent risks of a blockwork site: heavy machinery, falling objects, etc.  Outline the significance of personal protective equipment (PPE) on the site.  Sofety Barrier: PPE shields workers from various environmental hazards, from chemicals to physical injuries.  Decroese incidents: Using PPE reduces workplace injuries and illnesses.  Legal Compliance: PPE ensures adherence to occupational health and safety regulations.  Economic Benefits: Investing in PPE minimizes costs associated with accidents, like medical bills and legal penalites.  Boosts Morale: Worker Sele valued and secure, leading to better focus and productivity.  Customizability: PPE can be adjusted to address specific risks for varied tasks.  Plexibility: PPE can be adjusted based on changing risk conditions on site.  Describe the procedures for reporting any accidents or unsafe practices on a blockwork site, emphasizing immediate	Duration: 60MINS				Strand: Healt	h & Safety		
B9.1.2.1.Describe procedures for reporting accidents and unsafe practices in school and in the laboratory/ workshop and laboratory safety	Class: B9		Class Size	e:	Sub Strand: F	ersonal An	d W	orkshop Safety
Learners can understand the unique risks of a blockwork site and the importance of safety protocols, as well as the procedures for reporting any unsafe practices  Reference: Career Technology Curriculum Pg. 79  New words: Construction Safety, Safety Gear, Site Supervisor, Hazard Assessment  Phase/Duration  Phase/Duration  Learners Activities  Phase I:  STARTER  Show a brief video clip of a busy construction site, preferably with some clear safety violations.  Ask learners: "What did you observe? Which practices seemed unsafe to you?"  Share performance indicators with learners.  PHASE 2: NEW LEARNING  Discuss the inherent risks of a blockwork site: heavy machinery, falling objects, etc.  Outline the significance of personal protective equipment (PPE) on the site.  Safety Barrier: PPE shields workers from various environmental hazards, from chemicals to physical injuries.  Decreases Incidents: Using PPE reduces workplace injuries and illnesses.  Legal Compliance: PPE ensures adherence to occupational health and sofety regulations.  Encourages Safe Work Culture: Regular PPE use fosters a sense of safety and responsibility among workers.  Economic Benefits: Investing in PPE minimizes costs associated with accidents, like medical bills and legal penalties.  Boosts Morale: Workers feel valued and secure, leading to better focus and productivity.  Customizability: PPE can be tailored to address specific risks for varied tasks.  Flexibility: PPE can be adjusted based on changing risk conditions on site.  Describe the procedures for reporting any accidents or unsafe practices on a blockwork site, emphasizing immediate	B9.1.2.1 Demonstrate	B9.1.2.1 Demonstrate skills that relate to reporting accidents and unsafe practice						
Phase/Duration  Learners Activities PHASE I: Show a brief video clip of a busy construction site, preferably with some clear safety violations.  Ask learners: "What did you observe? Which practices seemed unsafe to you?"  Share performance indicators with learners.  PHASE 2: NEW LEARNING  Discuss the inherent risks of a blockwork site: heavy machinery, falling objects, etc.  Outline the significance of personal protective equipment (PPE) on the site.  Safety Barrier: PPE shields workers from various environmental hazards, from chemicals to physical injuries.  Decreases Incidents: Using PPE reduces workplace injuries and illnesses.  Legal Compliance: PPE ensures adherence to occupational health and safety regulations.  Encourages Safe Work Culture: Regular PPE use fosters a sense of safety and responsibility among workers.  Economic Benefits: Investing in PPE minimizes costs associated with accidents, like medical bills and legal penalties.  Boosts Morale: Workers feel valued and secure, leading to better focus and productivity.  Customizability: PPE can be tailored to address specific risks for varied tasks.  Flexibility: PPE can be adjusted based on changing risk conditions on site.  Describe the procedures for reporting any accidents or unsafe practices on a blockwork site, emphasizing immediate	Learners can understand the unique risks of a blockwork site and the importance of safety protocols, as well as the procedures for reporting any unsafe practices  Core Core Core Core Core Core Core Core					•		
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Immediate Action: Ensure everyone's safety and administer first aid if needed. If severe, seek medical help.		machinery  Outline the (PPE) on t  Sa had  De illr  Le he  En ser  Ec wir  Bo be  Cu for  File co  Describe to unsafe pra reporting.	r, falling objoure significant he site.  fety Barrier: I exards, from a excreases Incidentesses.  gal Compliant and safety onomic Beneth accidents, rosts Morale: tter focus and istomizability: PPE anditions on sitche proceductices on a diate Action diate	pects, etc.  PPE shields worker chemicals to physical dents: Using PPE resures active regulations. Fee Work Culture: Fee Work Culture: Fee Work Culture: Fee Workers feel valued productivity.  PPE can be tailor active and be adjusted be active.  Ures for report a blockwork site.	protective equings from various entered injuries. Seduces workplace of the entered to occupate the entered and secure, lead and secure, lead to address specials on changing in the entered en	pment vironmental injuries and ational sters a associated iding to cific risks its or mmediate		

	Isolate Hazard Area: Mark or section off any dangerous areas resulting from the accident.
	Document the Incident: Complete an accident report detailing
	the event, individuals involved, injuries, and corrective actions taken.
	Photographic Evidence: Take photos of the accident scene if possible.
	Investigation: Determine the cause of the incident by reviewing procedures and interviewing witnesses.
	Report Upwards: Notify higher organizational levels or regulatory bodies for severe incidents.
	Implement Safety Measures: Based on the investigation's findings, introduce measures to prevent future occurrences.
	Conduct Safety Audits: Regularly check kitchen practices to ensure safety.
	Provide Feedback: Inform staff about the incident's details and the subsequent actions taken.
	Role-play scenarios where learners identify and report safety
	violations on a hypothetical construction site.
	Assessment
	Why_is wearing PPE crucial on a blockwork site?
	Name one potential danger unique to a blockwork or construction site.
	If you observe a colleague not wearing safety gear on site, what should you do?
	Who is typically responsible for overseeing safety on a blockwork site?
PHASE 3:	
	Use peer discussion and effective questioning to find out
REFLECTION	from learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Week Ending: 20-10-2023 Day:			Subject: Career Technology (HE)				
<b>Duration:</b> 60MINS				Strand: Health & Safety			
Class: B9		Class Size	e:	Sub Strand: Persor	nal And Work	shop Safety	
B9.1.2.1 Demonstra personal, workshop	ate skills that and laborat		Indicator: B9.1.2.1.2: Us equipment wh	e appropriate persor nen working	nal protective	Lesson:	
	Learners can identify the various personal protective equipment used in the kitchen and sewing laboratory.  Core Comp CP 6.5: CI 5.4						
Reference: Career	Technology	Curriculum	Pg. 80				
New words: Safety	Protocol, Ind	cident Repo	ort, Hazard, Pre	eventative Measures			
Phase/Duration	Learners A	ctivities				Resources	
PHASE I: STARTER	Display pictures of people working in different environments (e.g., a chef, a construction worker, a scientist in a lab) where some of the PPE items are clearly missing.  Ask students to identify what's missing in each picture.  Share performance indicators with learners.						
PHASE 2: <b>NEW LEARNING</b>	Ask learners what personal protective equipment they think should be worn in a kitchen or sewing laboratory setting.  Show pictures or samples of PPE used in the kitchen laboratory (e.g., gloves, aprons, safety goggles).  Divide learners into small groups and have them identify and list different types of PPE used in the kitchen or sewing laboratory.  Kitchen PPEs:						
	Aprons Oven Mitt Gloves Chef's Han Net Non-Slip S	or Hair Shoes	spills and splar Protects hand and objects. Prevents hair Reduces the r or greasy floo	Is from hot surfaces from falling into food risk of slipping on we ors.	t		
	Cut-resist Gloves	aiil	knives or slice	enting cuts while usir ers	ig		

Face Shields or Goggles	Useful when handling hot oils or acidic substances to prevent splashes
Ear Plugs	In commercial kitchens with loud equipment, it helps in noise reduction

#### **Sewing Laboratory PPEs**

PPE	Uses
Thimble	Protects the finger from needle pricks.
Safety Glasses	Protects eyes from flying debris when cutting fabrics or using machinery.
Dust Masks	Protects from inhaling fabric or fiber dust, especially when cutting or handling certain materials.
Ear Plugs	For use in noisy environments with loud sewing machines or other equipment.
Finger Guards	Used with some sewing machines to protect fingers from moving parts.
Anti-vibration Gloves	Useful when working with vibrating machinery for extended periods
Aprons	Protects clothing from dirt, dye, or any other material.

Discuss the different types of PPE as a class, ensuring all learners understand their purpose and how they should be used.

Discuss the potential hazards encountered in a kitchen laboratory (e.g., sharp utensils, hot surfaces, chemicals).

Explain the importance of wearing PPE to protect against these hazards.

Engage learners in a class discussion, asking them to share their thoughts on why it is important to wear PPE in the kitchen laboratory.

Demonstrate the proper use of different types of PPE, such as putting on gloves or tying an apron.

Allow learners to practice using PPE in pairs or small groups, ensuring they follow proper procedures.

PHASE 3: REFLECTION	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.	

Week Ending: 20-	10-2023	Day:		Subject: Care	er Technology (PT	)
<b>Duration:</b> 60MINS				Strand: Healt	h & Safety	
Class: B9		Class Size	e:	Sub Strand: P	ersonal And Work	shop Safety
Content Standard B9.1.2.1 Demonstr personal, worksho	ate skills that p and laborat		Indicator: B9.1.2.1.2: Us equipment w		ersonal protective	Lesson: 2 of 2
Performance Indic Learners can identi the block work/wo	ify the various		orotective equi	pment used in	Core Competend CP 6.5: CI 5.4: CI 5	
Reference: Career	Technology	Curriculum	Pg. 80			
New words: Safety	Protocol, Inc	cident Repo	ort, Hazard, Pro	eventative Meas	ures	
Phase/Duration	Learners A					Resources
PHASE I: STARTER	chef, a cons	Display pictures of people working in different environments (e.g., a chef, a construction worker, a scientist in a lab) where some of the PPE items are clearly missing.  Ask students to identify what's missing in each picture.				
	Share perfo	ormance inc	licators with le	arners.		
PHASE 2: <b>NEW</b> <b>LEARNING</b>						Pictures and charts of food
	•			d in the block w gloves, ear prot	vork/woodwork tection).	
				I have them ider ck work/woodv	ntify and list vork workshop.	
		Discuss the different types of PPE as a whole class, ensuring all learners understand their purpose and how they should be used.				
	Woodworl	k Worksho	p PPEs:			
	splinters. 2. Ear Protect can cause he 3. Dust Mask particulates. 4. Safety Sho	Ear Protection (Earplugs or Earmuffs): Woodworking machinery can be loud and cause hearing damage over time.  Dust Masks or Respirators: To prevent inhalation of wood dust and other				
	rotating mach 6. Apron: To machinery.	ninery due to keep clothes A safety tool	entanglement risk clean and prevent used to push sm		-	

#### Blockwork Workshop PPEs: 1. Safety Glasses or Goggles: To protect eyes from flying debris, dust, or mortar. 2. Safety Shoes or Boots: Preferably steel-toed, to protect feet from dropped blocks or tools. 3. Heavy-duty Gloves: To protect hands from abrasion, sharp edges, and wet cement or mortar. 4. Hard Hat: Essential when there's a risk of falling objects or when working under scaffolding. 5. Dust Mask or Respirator: Especially important when cutting or shaping blocks to prevent inhalation of dust. 6. Knee Pads: Useful when laying blocks at low levels to protect knees from hard and rough surfaces. 7. High Visibility Vest: Useful in larger construction sites where visibility is crucial to avoid accidents. Discuss the potential hazards encountered in a block work/woodwork workshop (e.g., flying debris, sharp tools, loud noise). Explain the importance of wearing PPE to protect against these hazards. Engage learners in a class discussion, asking them to share their thoughts on why it is important to wear PPE in the block work/woodwork workshop. Demonstrate the proper use of different types of PPE, such as wearing safety glasses or putting on ear protection. Allow learners to practice using PPE in pairs or small groups, ensuring they follow proper procedures.

Design and make personal protective equipment using compliant and

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.

resistant materials (fabrics) in groups. E.g., Nose mask, gloves, apron, cap, goggles

PHASE 3:

**REFLECTION** 

Week Ending: 27-10	-2023	Day:		Subject: Career Technology			
Duration: 60MINS				Strand: Health & S	Safety		
Class: B9		Class Size	e:	Sub Strand: Perso	nal And Wo	rkshop Safety	
personal, workshop	Indicator: te skills that relate to B9.1.2.1.3: Maintain safe working					Lesson:	
Learners can discuss groups and demonst tagging of faulty equi	Performance Indicator:  Learners can discuss and reflect on the significance of workplace safety in groups and demonstrate or role-play safety practices, emphasizing the tagging of faulty equipment.  Core Core Core Core Core Core Core Core						
Reference: Career T	echnology	Curriculum	Pg. 81				
New words: Danger:	s, Risks, Thi	eats, Well-	-being.				
Phase/Duration	Learners /					esources	
PHASE I: STARTER	Show pictures of both safe and unsafe working environments.  Ask learners, "What differences do you notice between these two environments? How would you feel working in each space?" Allow learners to share their observations and feelings.						
PHASE 2: <b>NEW LEARNING</b>	A safe wo have a spabeing."  Divide the with chart Ask each gessential tegs., To read important introduce	r definition rking environce free fro e learners in c paper and group to di o keep the educe/preve fferent safe te of each. the concep	on the board.  onment ensure m dangers, risk onto small group markers.  scuss and list d working environt accidents ty signs and syrott of tagging fauter.	s that employees and s, and threats to the s and provide each s	d others enter well- group  /hy is it	afety signs and ymbols ample "faulty quipment" tags	

	·	
	Role-play a scenario where a student identifies a faulty piece of equipment, tags it, and reports it.	
	Ask other learners to join and role-play similar scenarios or other safety practices.	
	<ul> <li>Assessment <ol> <li>Why is it essential to maintain a safe working environment?</li> <li>Name two key words from today's lesson and explain their importance in workplace safety.</li> <li>Why is tagging faulty equipment important in a workplace?</li> <li>How do safety signs and symbols contribute to a safer working environment?</li> </ol> </li> </ul>	
PHASE 3:	Use peer discussion and effective questioning to find out from	
REFLECTION	learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	
	Project work: Design posters to create awareness on the need to maintain a safe working environment, and post them around the school. Note: School Health Education Programme (SHEP) clubs to educate other learners, cooks, food vendors, and staff of the school on food hygiene practices. The school should form a SHEP club if there is none in the school.	

Week Ending: 27-10	-2023	Day:		Subject: Car	eer Technology	(HE)		
Duration: 60MINS				Strand: Heal	th & Safety			
Class: B9		Class Size:		Sub Strand:	Environmental H	Health		
	strate understanding and of poor			icator: 1.3.1.1: Discuss the causes and prevention poor sanitation in the school/home/nmunity/site/ workshop/ laboratory.  Lesson: 2 of 2				
Performance Indica Learners can identify in workshops and lab	and discusporatories.			or sanitation	<b>Core Compet</b> CP 6.5: CI 5.4: C			
Reference: Career T	Technology	Curriculum	Pg. 82					
New words: Contam	nination, N	legligence, H	azards, and \	<b>V</b> aste				
Dhaga/Duur ti au	1	A -4i: .i +:				D		
Phase/Duration PHASE I:		Activities	or of a mass.	/ Morlobos /I- L	oratory and a	Keso	urces	
STARTER	Ask, "Who comfortadiscussion	e. nich environ ble working n.	ment would	you feel safer a llow a few mir	and more			
PHASE 2: <b>NEW</b>					SCIISSES	Pictu	res of messy	
LEARNING	potential causes of poor sanitation in a workshop or laboratory setting.  E.g., Littering around, poor disposal of waste, indiscriminate tories					clean cshops/labora s d sanitizers, es, cleaning lies for		
	Using the same groups as before, now ask learners to come up with ways to prevent poor sanitation, particularly focusing on the key words discussed.  E.g., Putting bins at vantage points for waste to be put in instead of putting it on the ground.							
	Have groups present their prevention strategies. Add any critical methods they might have missed, emphasizing regular cleaning schedules, proper disposal of waste, and the importance of personal responsibility.							
		e the project nd Commun		rtance of Clea	nliness in Our			

	Groups must create a poster, skit, or presentation that emphasizes the significance of maintaining cleanliness in our surroundings. Encourage creativity!	
	Allow time for groups to work on their projects. At the end of the period or in a subsequent class, let each group present their work.	
	Assessment	
	Name two causes of poor sanitation in workshops or laboratories.	
	<ul><li>2. How can regular cleaning prevent hazards in these areas?</li><li>3. Why is proper waste disposal crucial in a laboratory setting?</li></ul>	
	4. What role do individuals play in ensuring cleanliness in workshops and laboratories?	
PHASE 3:	Use peer discussion and effective questioning to find out from	
REFLECTION	learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	
	Project: Invite an expert from the District Assembly or the Community to assist with the recycling project	

Week Ending: 03-11	Week Ending: 03-11-2023 Day: Subject: Career Technology			eer Technology	(HE)		
Duration: 60MINS				Strand: Heal	th & Safety		
Class: B9		Class Size:		Sub Strand:	Environmental F	Health	
	ate understanding of mproved Cookstoves    Indicator:   B9.1.3.2.1: Discuss what is meant by clear energy and improved cookstoves and further than the cookstoves are considered.						
Performance Indica Learners can compre and cleaner fuels, and	ehend wha			ookstoves	Core Compete CP 6.5: CI 5.4: C		
Reference: Career T	echnology	Curriculum	Pg. 82				
New words: Clean E	nergy, Rer	newable, Co	okstoves, Em	issions			
						1 _	
Phase/Duration		Activities			le.e. I	Reso	urces
PHASE I: STARTER		ing and the	-	ne showing trangls	aditional open- or wind		
	might be	the differen	_	Ç,	nergy? What ey represent?"		
PHASE 2: <b>NEW</b>				meant by clear	n energy.	Pictu	res of
LEARNING		energy prod		n means that d		cook	stoves
	Have lear	rners identif	y improved c	ookstoves and	fuels		
	Engage learners to watch pictures and videos on improved cookstoves and fuels and traditional cookstoves and fuels and make comparison of them.  Note: Visit the website https://www.ghacco.org for more						
	information.  Lead learners to discuss what happens when clean energy is						
	used. E.g., They are more efficient, give off less emission and are safer than the traditional cook stoves or three-stone-fires.						
	various ir	Learners in their groups search and present in class, the various improved cookstoves and fuels using ICT tools and other sources.  E.g., Gyapa, holy cook, gas stoves, pellets, briquettes, Liquefied					
		m Gas (LPG)	-	peness, or ique	Liquelled		

	Assessment How does clean energy differ from traditional energy sources? Why is there a push towards using cleaner fuels in cookstoves? Name one type of improved cookstove and its advantage. What is one significant benefit of transitioning to clean energy?	
PHASE 3: REFLECTION	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.	

Week Ending: 03	3-11-2023	Day:		Subject	: Career Technology (H	E)	
Duration: 60MIN	S			Strand:	Health & Safety		
Class: B9		Class Size	e:	Sub Str	and: Environmental Hea	lth	
Content Standar B9.1.3.2 Demons energy, and Impr their accompanyi	trate underst oved Cooksto ng fuels		ean B		ator: 3.2.2: Discuss the benefits of improved stoves and fuels.		
Performance Inc Learners can und and recognize the	lerstand the a	_	_	•	toves and cleaner fuels r uses.		Competencies CI 5.4: CI 5.2: (
Reference: Care	er Technolog	y Curricului	m Pg. 83				
New words: Coo	okstoves, Effic	iency, Emiss	sions, Sus	tainable			
		,					
Phase/Duration	Learners A						Resources
PHASE I: STARTER	Display pict		ditional op	oen-fire cookir	ng methods and improve	Þ	
	methods? V	Vhy might s	someone	•	etween these cooking ethod over the other?"		
PHASE 2:				oved cookstov	ves and fuels		Pictures of
NEW			•		each group with a chart	paper	Cookstoves
LEARNING	and marker	·s.		·			
	cookstoves	and cleane ciency, They	r fuels. Be	enefits might in	nefits of using improved nclude health, environme he cook and people arou		
		J		presents their lowing stoves.	r list to the class.		
				fuels • traditio			
		e type	Descrip		Uses		
		ved Cookst	toves				
	Rocke	et Stoves	complete	with an vertical that ensures e combustion reduces the of smoke sions	They are primarily used for boiling and simmering. Can be use with a variety of biomass fuels including wood and agricultural residues.	d	
	Gasifi	er Stoves	•	oves use a	Cooking various dishes especially in regions	5,	

	gosification to	whom wood or
	gasification to	where wood or
	convert solid	biomass is the primary
	biomass into a	fuel source.
	gaseous form before	
	combustion. This	
	process reduces	
	harmful emissions.	
Solar Cookers	Uses the sun's energy	Baking, boiling, and
Joial Cookers	σ,	9
	to cook food. It can	simmering food without
	either concentrate	the need for fuel.
	sunlight to produce	Suitable for sunny
	heat or trap sunlight	regions.
	within an insulated	
	box to cook.	
LPG (Liquefied	These stoves run on	Frying, boiling,
Petroleum	propane or butane.	simmering, and baking.
	• •	
Gas) Stoves	They produce a clean	They're used worldwide
	flame with minimal	for a range of cooking
	emissions.	needs and are
		particularly sought after
		for their clean and
		efficient burn.
Traditional Stove	es	
Open Hearth	Essentially a	Basic cooking tasks but
or Indoor	contained open fire	comes with significant
Open Fire	inside a dwelling,	health risks due to
Openine	•	
	often without proper	indoor air pollution.
CI I	ventilation.	F : 1 :0: 1
Charcoal	Made of metal or	Frying, boiling, and
Stoves	clay, these stoves	other basic cooking
	burn charcoal as fuel.	tasks. Common in
	While they are more	urban areas where
	efficient than open	wood is less available
	fires, they still emit	but charcoal can be
	harmful fumes.	purchased.
Clay or Mud	Made from local	Boiling, simmering, and
Stoves		
Stoves	materials, these are	other basic cooking
	sometimes an	tasks. Common in rural
	upgrade from the	parts of many
	three-stone fire but	developing countries.
	still emit a lot of	
	smoke.	
Three-Stone	As the name	General cooking needs.
Fire	suggests, it's a basic	Predominantly used in
	-	rural areas due to its
1	setup with three	
	setup with three	
	stones placed in a	simplicity.
	stones placed in a triangle, supporting a	
	stones placed in a	

Use real cookstoves, models, or pictures to show how each stove operates.

	Highlight the specific benefits of each stove type.  If possible, demonstrate the difference in emissions or fuel efficiency between traditional methods and the improved stoves.	
	In groups, plan and organize a campaign to educate the school and the community on the use and benefits of improved cookstoves.	
	Assessment	
	I. Why are improved cookstoves better for our health compared to	
	traditional cooking methods?	
	2. How do improved cookstoves benefit the environment?	
	3. Name one type of improved cookstoves you learned about today.	
	4. How can using cleaner fuels be more cost-effective in the long run?	
PHASE 3:	Use peer discussion and effective questioning to find out from learners what	
REFLECTION	they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	
	Emphasize the importance of transitioning to improved cookstoves and cleaner fuels, not just for individual health and savings but also for the broader environmental and societal benefits.	

Week Ending: 10	-11-2023	Day:		Subje	ct: Career Techno	logy	(PT)
Duration: 60MINS	5			Stran	d: Materials For Pr	oduc	tion
Class: B9		Class Si	ze:	Sub S	trand: Resistant M	lateri	als
	I Demonstrate skills in selecting ant materials for making products			Indicator: B9.2.1.1.1: Discuss the factors that influe the selection of compliant materials			Lesson:
Performance Ind Learners can iden understand safe p				Core Competen Communication an (CC), Critical Thir Solving (CP), Creat	nd Col	and Problem	
Reference: Caree	er Technology	Curriculu	m Pg. 83				
New words: Com	npliant, Materia	ls, Prope	rties, Safety, Tool	s			
Phase/Duration	Learners Act				1.66	R	esources
PHASE I: STARTER	Materials.  Ask learners materials and	Ask learners to identify which ones are made from compliant materials and justify their choices.					
PHASE 2:			licators with lear perties of complia		arials using	P	ictures and
NEW	examples.	r the prop	per des or compile	inc mac	criais using		harts of
LEARNING	Complian	t Materia	ls Properties				ompliant
	Rubber		Highly elast Resistant to chemicals Good elect Dampens vi	water rical ins bration	sulator as	m	naterials
	Silicone	ane (PU)	Highly flexible and elastic Resistant to UV, ozone, and extremes of temperature Biocompatible (used in medical devices) Non-reactive and stable Good abrasion and wear				
	Foams		resistance Resistant to many solver Can be forr or very hard	o oils, go nts mulated d foam f			

		Can be compressed and will		
		return to their original shape		
		Good insulating properties		
		Used in mattresses, protective		
		packaging, and more		
	Latex	Elastic		
		Biodegradable		
		Resistant to wear and tear		
		Used in gloves, balloons, and		
		many medical products		
		, ,		
	Discuss the differer materials.	nces between compliant and non-compliant		
	·	al risks of working with different tools. autions to be followed.		
	Have learners water practices when wor			
	Teacher demonstra with a compliant m	ates on how to use tools safely while working aterial.		
	Discuss the import			
	Divide learners into groups. Give each group a few samples of different materials.			
	Each group identifies which samples are compliant materials based on their properties and presents their findings to the class.			
	Assessment  I. Name two compliant materials.  2. Identify any three compliant materials and state one property of each.			
		rtant to follow safety practices?		
DI LACE 2		ty precaution when using tools.		
PHASE 3:		n and effective questioning to find out from		
REFLECTION	learners what they	have learnt during the lesson.		

Take feedback from learners and summarize the lesson.

Week Ending: 10-1	-11-2023 Day: Subject: Career Technolog			y (PT)		
Duration: 60MINS		Strand: Materi		Strand: Materials For Produ	erials For Production	
Class: B9		Class Si	ze:	Sub Strand: Resistant Mater		
Content Standard: B9.2.1.1 Demonstrate skills in selecting compliant materials for making products and artefacts				Indicator: B9.2.1.1.1: Discuss the factors that influence the selection of compliant materials		
Performance Indicator: Learners can create artefacts using compliant materials and understand the factors influencing their selection.  Core Competencies: Communication and Collabo Critical Thinking and Problem Creativity and Innovation			` '			
Reference: Career	Technology	Curriculu	m Pg. 83			
New words: Artefa	ct, Factors, S	election,	Appraisal			
DI /D :						
Phase/Duration PHASE I:	Learners A		olo artofast mad-	from a compliant metanis!	Resources	
STARTER	Show learners a simple artefact made from a compliant material.  Ask them to guess which compliant material it's made from and its purpose.					
	Share performance indicators with learners.					
PHASE 2: <b>NEW LEARNING</b>	Discuss the reasons why the material for the starter artefact was chosen.  Pictorial for the starter artefact was chosen.				Pictures and charts of compliant materials	
	Provide a step-by-step demonstration of how to work with a compliant material, from measuring to surface finishing.  Discuss the importance of each step and give tips for best practices.					
	simple arte		oose a compliant	material and design a		

	Learners' measure, cut, fold, join, and finish their artefacts based on what they learned from the demonstration.  Once everyone is done, allow learners to display their artefacts.	
	Learners gather in groups, appraising each other's work, discussing the materials chosen, and why.	
	Assessment	
	I. What are two factors to consider when selecting a compliant material?	
	<ul><li>2. Why is it important to choose the right material for a task?</li><li>3. What is an artefact?</li></ul>	
	4. How can compliant materials be beneficial in creating artefacts?	
PHASE 3:	Use peer discussion and effective questioning to find out from	
REFLECTION	learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Week Ending: 17	7-11-2023	Day:		Subje	ct: Career Technolo	gy (PT)	
Duration: 60MIN	S			Strand: Materials For Pro		duction	
Class: B9		Class Si	ze:	Sub S	trand: Resistant Mat	terials	
Content Standard: B9.2.2.1 Demonstrate skills in selecting resistant materials for making products/artefacts			Indicator: B9.2.2.1.1: Disc the selection of		factors that influenc	Lesson:	
Performance Inc Learners can ider understand safe p	ntify the proper		•		Core Competencie Communication and (CC), Critical Thinki Solving (CP), Creative	Collaboration ing and Problem	ı
Reference: Care	er Technology	Curriculu	ım Pg. 83				
New words: Resi	stant, Materials	, Propert	ies, Safety, Tools				
Phase/Duration	Learners Act					Resources	
PHASE I: STARTER	_		based question: " ctreme weather c	_	e you're designing a ns.		
	learners to sl	What materials would you consider using, and why?" Encourage learners to share their initial thoughts.					
PHASE 2:			dicators with lear		terials, discussing	Pictures and	
NEW LEARNING	their propert	ies, and t	he safe practices nandling these ma	for wo	_	charts of compliant materials	
	Resistant Ma		Properties				
	Rubber		Elasticity, good resistance to abrasion, and weather resistance. Rubber is used in tires, seals, and various vibration-damping applications.				
	Polyethylene		Chemical resistance, lightweight, and low moisture absorption. It's used in various applications, including plastic containers, pipes, and liners for chemical tanks.				
	Fiberglass		High tensile strength, corrosion resistance, and lightweight. It's used in boat hulls, automotive parts, and building materials.				
	PVC		Good chemical resistance, electrical insulation, and low moisture absorption. PVC is widely used in plumbing, electrical cables, and construction materials.				
	Ceramic Mat		High-temperature re insulating properties, corrosion. Ceramics cutting tools, and as	, and res are used	istance to wear and in ball bearings,		

	Stainless Steel	Excellent corrosion resistance, high strength, durability, and resistance to heat and chemicals. It's commonly used in kitchen appliances, industrial equipment, and construction.		
	Emphasize the impo	rtance of safety in material selection and use.		
	resistant materials, s	factors that influence the selection of uch as purpose/function of the product, tions, durability, cost, and availability.		
		group discussion where each group is tasked of these factors in more detail.		
		small groups, and assign each group one of ng material selection.		
		ners should brainstorm and share examples their assigned factor is crucial in selecting		
	Encourage learners they have gained.	to think critically and apply the knowledge		
	Demonstrate the processes involved in working with resistant materials, such as cutting, shaping, joining, and finishing.			
		ance of choosing the right tools and pecific material and its intended use.		
	choice of resista  2. Discuss the factor of a resistant ma	urpose or function of a product influence the nt materials? Give an example. ors to consider when ensuring the durability aterial in a product.		
DI IACE 2	working with res	sistant materials and tools?		
PHASE 3: REFLECTION		and effective questioning to find out from ave learnt during the lesson.		

Take feedback from learners and summarize the lesson.

Week Ending: 17	7-11-2023 <b>Day: Subject</b>			ct: Career Technology (PT)			
Duration: 60MINS		Strai		Stran	rand: Materials For Production		
Class: B9		Class Si	ze:	Sub S	trand: Resistant Mate	terials	
B9.2.2.1 Demonst resistant materials products/artefacts	rate skills in se s for making	electing	Indicator: B9.2.2.1.2: Discuss the reasons why resistar materials require particular techniques and tools for their safe handling and use			Lesson:	
Performance Ind Learners can iden understand safe p	tify the proper				Core Competencie Communication and ( (CC), Critical Thinkin Solving (CP), Creativi	Collaboration ng and Problem	
Reference: Caree	r Technology	Curriculu	m Pg. 86				
New words: Com	pliant, Materia	ls, Proper	ties, Safety preca	utions			
Phase/Duration	Learners Act					Resources	
PHASE I: STARTER	Begin with a simple question: "Why do you think it's important to use the right tools and techniques when working with materials like wood, metal, or plastic?"  Allow learners to share their thoughts briefly.						
	Share perform	nance ind	licators with lear	ners.			
PHASE 2: <b>NEW</b> <b>LEARNING</b>	Share performance indicators with learners.  Explain the importance of using specific techniques and tools when working with resistant materials.  Emphasize that using the wrong tools or techniques can lead to accidents, damage to materials, and inefficiency.  Discuss the concept of tool-material compatibility. Explain that different materials require specific tools because of variations in hardness, texture, and other properties.  Use examples like saws designed for woodwork and cutting metals and the potential consequences of using the wrong tools.  Connect safety precautions to specific processes involved in working with resistant materials when creating an artifact.  E.g When planning wood, check that the plane is sharp and correctly set When using sharp edged tools, always keep both hands behind the cutting edge.  - Fix the hacksaw blade such that the teeth point away from the handlel operator.  Provide examples of safety measures such as ensuring tools are				charts of compliant		

REFLECTION	Take feedback from learners and summarize the lesson.
PHASE 3:	Use peer discussion and effective questioning to find out from
DLIASE 2.	work with resistant materials and the correct tools and safety precautions to use.  Assessment  I. Why is it important to use the right tools for specific resistant materials? Provide an example.  2. Discuss the potential consequences of using the wrong tools or techniques when working with resistant materials.  3. Name two safety precautions related to working with resistant materials, and explain why they are important.  4. In the context of your group discussions, share a scenario where tool-material compatibility and safety precautions are essential when working with resistant materials.
	Encourage a learner-centered discussion on the consequences of using the wrong tools or techniques and the benefits of following safety precautions.  In small groups, learners can discuss scenarios where they would

Week Ending: 24	-11-2023	Day:		Subje	ct: Career Technolog	gy (	PT)
Duration: 60MINS				Stran	Strand: Materials For Produ		ion
Class: B9		Class Si	ze:	Sub S	trand: Smart & Mode	ern	Materials
B9.2.3.1 Demonst using smart and m making products/a	rate understan nodern materia		Indicator: B9.2.3.1.1: Discuss reasons for using smart and modern materials for making products/artefacts				Lesson:
Performance Ind Learners can disco materials for make	uss the reasons		<del>-</del>	ern	Core Competencie Communication and (CC), Critical Thinki Solving (CP), Creativi	Coll ng a	nd Problem
Reference: Caree	r Technology	Curriculu	m Pg. 87				
New words: Resis	stant, Materials	, Artefact	ts, Properties, mo	odern, s	mart		
Phase/Duration PHASE 1:	Learners Act		a "Guess the Mat	orial" a	etivity Show	Re	esources
STARTER	learners pictures of various everyday objects (e.g., a smartphone, a car bumper, a water bottle), and ask them to guess what materials these objects are made of.  Discuss their assumptions and initial thoughts.  Share performance indicators with learners.						
PHASE 2: <b>NEW</b> <b>LEARNING</b>	materials and their unique properties.  differ and n				mples of fferent smart d modern aterials		

	Present a real-world problem or challenge where the use of smart and modern materials would provide a solution.  In small groups, have learners brainstorm and present their ideas on how smart materials can address the problem.	
	<ol> <li>Assessment         <ol> <li>What are smart and modern materials, and what are their unique properties?</li> <li>In the table comparing material uses, can you identify uses for both smart and modern materials as well as compliant and resistant materials?</li> </ol> </li> <li>Why might a designer choose to use smart and modern materials over compliant or resistant materials in the production of artefacts?</li> </ol>	
PHASE 3: REFLECTION	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.	

Week Ending: 24	-11-2023	Day:	Day: Subject: Career Technology			gy (HE)
Duration: 60MINS	5			Strand: Materials For Pro		luction
Class: B9		Class Si	ze:	Sub S	trand: Smart & Mode	ern Materials
using smart and n	ntent Standard:  2.3.1 Demonstrate understanding of one smart and modern materials for king products/artefacts			Indicator: B9.2.3.1.2: Demonstrate techniques for making prototypes/ projects to solve problems in the environment using smart and modern materials		
Performance Ind Learners can dem projects that solv modern materials	onstrate techn e environment	al probler	ms using smart ar		Core Competencie Communication and ( (CC), Critical Thinki Solving (CP), Creativi	Collaboration ng and Problem
Reference: Care						
New words: Prot	otypes, Materia	als, Prope	rties, Safety, Too	ols, Tecl	hniques	
Phase/Duration PHASE 1: STARTER	Begin with a	Learners Activities  Begin with a "Brainstorming Environmental Problems" activity. In small groups, have learners identify and discuss environmental				Resources
	issues or problems in their community.  Encourage them to share their thoughts and ideas.  Share performance indicators with learners.					
PHASE 2: <b>NEW</b> <b>LEARNING</b>	Facilitate a discussion on the environmental problems learners identified in their community during the starter activity.  Samples of examples					

	<ol> <li>What environmental problems did your group identify in the community, and why did you choose them?</li> <li>How do smart and modern materials offer unique solutions to environmental challenges?</li> <li>Can you describe a real-world invention or technique that uses smart and modern materials to address an environmental problem?</li> <li>In your group project, explain the prototype or project you designed to address the assigned environmental problem and</li> </ol>
	the smart and modern materials you used.
PHASE 3:	Use peer discussion and effective questioning to find out from
REFLECTION	learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

			Subject: Career Technology (PT)				
			Stran	d: Materials For Prod	duction		
	Class Siz	ze:	Sub S	trand: Smart & Mode	ern Materials		
Content Standard: B9.2.3.1 Demonstrate understan using smart and modern material making products/artefacts			pes/ pro e enviro	ojects to solve	Lesson: 3 of 3		
vironmenta	core Competencie Communication and C (CC), Critical Thinkir Solving (CP), Creativit			Collaboration ng and Problem	n		
es, Materia	ls, Prope	rties, Safety, Too	ıs, Tech	nniques			
Learners Activities Resource  Begin with a "Problem Exploration" activity. Present learners with a scenario involving an environmental issue in their local community.					Resources		
Ask them to brainstorm possible solutions using smart and modern materials.  Share performance indicators with learners.							
mmunity. courage lea  ovide sampl scuss their dress enviro emonstrate ojects using plain how to osen enviro small group dress.  ovide learne products u t up a displa n showcase	les or exacunique pronumental the processmart are on plan, dependental or easy assign their articles.	discuss the problement amples of smart a roperties and how issues.  esses involved in ad modern mater esign, and construction problem.  each group an erection and modern mater and modern mater the classroom of efacts or production.	creating and more terials.  terials to aterials or schools.	dern materials. can be applied to g prototypes or utions for the mental problem to to create artefacts .	Samples or examples of smart and modern materials.		
	ern material facts  or:  trate technivironmental echnology Coes, Material echnology Coes are a scenario invitate are performance a scenario endicts their dress environmentate of echnology Coes environmenta	ern materials for facts  or:  trate techniques for vironmental problem echnology Curriculumes, Materials, Properaries Activities gin with a "Problem cenario involving an ammunity.  It is them to brainstorm odern materials.  In performance induction are a scenario or reammunity.  It is the process of the products using smart are plain how to plan, do sen environmental small groups, assign dress.  It is a display area in a showcase their artifice classmates and to the products using smart are plain to the products using smart are plain how to plan, do sen environmental small groups, assign dress.	making prototy problems in the and modern materials for and modern materials for the and modern materials for making prototy problems in the and modern materials for making prototy problems using smart and modern materials.  The echnology Curriculum Pg. 87  The ec	By.2.3.1.2: Demonstrar making prototypes/ propoblems in the environand modern materials for and modern materials for trate techniques for making prototypes or vironmental problems using smart and echnology Curriculum Pg. 87  Tees, Materials, Properties, Safety, Tools, Techniques, Materials, Problem Exploration" activity. Procenario involving an environmental issue in a munity.  The performance indicators with learners, are a scenario or real-life environmental chammunity.  The performance indicators with learners, are a scenario or real-life environmental chammunity.  The problems in the environmental issue in the classification of the problem and the properties and how they dress environmental issues.  The performance indicators with learners and most scuss their unique properties and how they dress environmental issues.  The problems in the environmental issue in the problem in the classification of the problem in the classification of the products using smart and modern materials are products are products.	sunderstanding of carts materials for making prototypes/ projects to solve problems in the environment using smart and modern materials.  Core Competencia Communication and of (CC), Critical Thinkis Solving (CP), Creativities are performance indicators with learners.  Are a scenario or real-life environmental challenge in the munity.  Courage learners to discuss the problem and its impact.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide samples or examples of smart and modern materials.  Covide learners with the necessary materials to create artefacts ovide learners with the necessary materials to create artefacts products using smart and modern materials.  Covide learners with the necessary materials to create artefacts products using smart and modern materials.  Covide learners with the necessary materials to create artefacts products using smart and modern materials.  Covide learners with the necessary materials to create artefacts products using smart and modern materials.	B9.2.3.1.2: Demonstrate techniques for making prototypes/projects to solve problems in the environment using smart and modern materials  The problems in the environment using smart and modern materials  The problems using smart and modern materials.  The problems using smart and modern materials.  The problems exploration are indicators with learners.  The problems using smart and modern materials.  The problems exploration are indicators with learners.  The problems exploration are indicators with learners are a scenario or real-life environmental challenge in the materials.  The problems exploration are indicators with learners are a scenario or real-life environmental challenge in the materials.  The problems exploration are indicators with learners are a scenario or real-life environmental challenge in the materials.  The problems exploration and collaboration (CC), cricical Thinking and Problem of exploration and collaboration (CC), cricical Thinking and Problem in the problem in the indicators with learners are a senario or real-life environmental issue in their local materials.  The problems exploration are indicators with learners are a senario or real-life environmental challenge in the exploration are indicators with learners are a senario or real-life environmental problems to discuss the problems are problems.	

	<ol> <li>Describe the process you used to create your prototype or project to solve the assigned environmental problem.</li> <li>How did the appraisal of your artefact/product contribute to your understanding of creating environmental solutions with smart and modern materials?</li> </ol>	
PHASE 3: REFLECTION	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.	

Week Ending: 30	ng: 30-11-2023 Day: Subject: Career Technology (PT)								
Duration: 60MINS	ion: 60MINS Strand: Tools, Equipment & Proc			sses					
Class: B9		Class Si	ze:	Sub Strand: Measuring & Marking			Out		
	3.1.1 Demonstrate understanding of assuring and marking out tools and marking out tools and marking out.				Lesson:				
	Performance Indicator: Learners can discuss tools and equipment used for measuring and marking out  Core Competencies: Communication and Collaboration and Problem Creativity and Innovation								
Reference: Caree	r Technology	Curriculu	m Pg. 91						
New words: Meas	surement Tool	s, Markin	g Out, Precision	Instrum	nents, Trade Areas				
Phase/Duration PHASE I:	Learners Act		activity. Place a f	ew too	ls and equipment related to	Resources			
	Ask learners to observe and write down the names of as many tools as they can identify. After a few minutes, discuss their observations as a class.								
PHASE 2:	•		licators with lear		ent and marking in various	Mark	ing tools		
NEW LEARNING	trade areas.	прогалс	e of accurate me	asur em	ent and marking in various		king tools ncils, chalk, kers)		
	Introduce the		,						
	Divide the class into small groups. Assign each group a trade area (building site, wood workshop, metal/plastic workshop).					Images of measuring tools (ruler, tape measure, calipers, etc.)			
	Provide images or samples of tools used in each area. Ask groups to discuss and list the tools they think are used for measuring and marking out in their assigned trade area.								
	Each group p their purpose		neir findings, expl	laining t	he tools they identified and				
	_		on the precision choice of tools.	•	ed in different trade areas	e areas			
	Allow learner tools.	rs to hand	lle and examine v	various	measuring and marking				

	Discuss the specific features and applications of each tool.	
	Facilitate a class discussion on the similarities and differences in tools used across different trade areas.	
	Explore the concept of adaptability in tools for varied materials (wood, metal, plastic).	
	Assessment  I. Identify three tools commonly used for measuring in a wood workshop.	
	Explain the importance of precision instruments in a metal/plastic workshop.	
	Discuss a situation where accurate marking out is crucial on a building site.	
	4. How do the tools used in wood workshops differ from those used in metal/plastic workshops?	
PHASE 3:	Use peer discussion and effective questioning to find out from learners	
REFLECTION	what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Week Ending: 30	ek Ending: 30-11-2023 Day: Subject: Career Technology (PT)							
Duration: 60MINS			Strand: Tools, Equipment & Processes					
Class: B9	Sub Strand: Measuring & Marking			Out				
B9.3.1.1 Demonstrate understanding of marking out tools and				: : Discuss tools and equipment used for g and marking out			Lesson:	
Performance Inc Learners can clas	Performance Indicator:  Learners can classify measuring and marking out tools and equipment according to their use in building, woodwork, and  Core Competencies:  Communication and Collabor  Critical Thinking and Problem							
Reference: Care	er Technology	Curriculu	m Pg. 91					
New words: Mea	surement Too	ls, Markin	g Out, Precision	Instrum	nents, Trade Areas			
Phase/Duration	Learners Act		againsians Dlana - A	Sav. 4 = -	la and aquinment unlated to	Reso	urces	
PHASE I: STARTER			activity. Place a 1 g out on a table.	rew too	ls and equipment related to			
	they can ider class.	ntify. After		discuss	ames of as many tools as their observations as a			
PHASE 2: NEW LEARNING	2: Discuss the concept of classification and why it is useful in organizin information.				, ,	Marking tools (pencils, chalk, markers)		
	Divide the cl Provide a set samples of to Ask each grouse in the the Each group p their choices Encourage di in multiple tr Facilitate a cl classification	ass into sit of measured to class ree trade oresents the classions rade areas among gr	mall groups.  uring and marking in building, wood saify the tools intareas.  heir classification on the versatility.  ession on the compoups.	g tools a lwork, a to categ , explain y of cer monalit	along with images or and metal/plastic work.  ories based on their likely  ning the rationale behind  tain tools that may be used  ies and differences in tool	Images of measuring tools (ruler, tape measure, calipers, etc.)		
	Emphasize the adaptability of certain tools to different materials.  Use an interactive whiteboard to create a digital chart of classified tools.  Allow learners to drag and drop tools into the appropriate categories.							

	<ol> <li>Assessment         <ol> <li>Name two measuring tools commonly used in metal/plastic work.</li> </ol> </li> <li>Explain why adaptability is an important feature in some measuring tools.</li> <li>How might the classification of tools help workers in a wood workshop?</li> </ol> <li>Provide an example of a marking tool that could be used in both building and woodwork.</li>	
PHASE 3: REFLECTION	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.	