FAYOL INC. 0547824419

## FIRST TERM WEEKLY LESSON NOTES WEEK 8

Week Ending: 24	-11-2023	Day:		Subject: Career Technology (PT)				
Duration: 60MINS			Strand: Materials For F		d: Materials For Proc	oduction		
		Class Size:		Sub S	trand: Smart & Mode	ern	rn Materials	
Content Standard: B9.2.3.1 Demonstrate understanding using smart and modern materials for making products/artefacts			Indicator: B9.2.3.1.1: Discuss reasons for using smart and modern materials for making products/artefacts				Lesson:	
Performance Indicator: Learners can discuss the reasons for usin materials for making products or artefact						Coll ng a	and Problem	
Reference: Caree	r Technology	Curriculu	m Pg. 87					
New words: Resis	stant, Materials	, Artefact	ts, Properties, mo	odern, s	smart			
Phase/Duration PHASE I: STARTER	Learners Activities  Begin the lesson with a "Guess the Material" activity. Show learners pictures of various everyday objects (e.g., a smartphone, a car bumper, a water bottle), and ask them to guess what				Re	esources		
PHASE 2:	materials these objects are made of.  Discuss their assumptions and initial thoughts.  Share performance indicators with learners.  Recap the learners' knowledge about smart and modern  Samples of					mples of		
NEW LEARNING	materials and Discuss examshape memore properties. Introduce the Provide a tab and "Compliand "Compliand" and "Lead a class of modern material and Encourage less	their uninples of the property polymers to the concept le with twent and Represent the concept liscussion erials in an arners to	que properties.  nese materials, su ers, and materials  of compliant and vo columns: "Sma esistant Materials	ch as m with se I resista art and ." I list use e table. es of us n.	nemory metals, elf-healing ant materials. Modern Materials" es of each type of ing smart and	dit an	Imples of fferent smart ad 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	ing: 24-11-2023 Day: Subject: Career Technological			gy (HE)		
Duration: 60MINS				Stran	d: Materials For Proc	luction
Class: B9		Class Si	ze:	Sub S	trand: Smart & Mode	ern Materials
Content Standard: B9.2.3.1 Demonstrate understanding of using smart and modern materials for making products/artefacts			Indicator: B9.2.3.1.2: Demmaking prototy problems in the and modern ma	pes/ pre e envirc	Lesson: 2 of 3	
Performance Indicator:  Learners can demonstrate techniques for making prototypes or projects that solve environmental problems using smart and modern materials.  Core Competencia Communication and (CC), Critical Thinking Solving (CP), Creative Communication and COC).					Collaboration ng and Problem	
Reference: Caree						
New words: Prot	otypes, Materia	als, Prope	erties, Safety, Too	ols, Tecl	hniques	
Phase/Duration PHASE 1: STARTER	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>	identified in the Encourage less selecting thes Provide samp Discuss their solve environ Share a collect and modern in Discuss real-lin small group problems ide Encourage less	heir cominaterials world examples, assignatified in	amples of smart a	e starte  ints and  and mo  w they  hniques  onment  learner  of the e	r activity. reasons for  dern materials. can be applied to  s that use smart al challenges. rs. environmental	Samples or examples of smart and modern materials.

	<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> </ol>	
	4. In your group project, explain the prototype or project you designed to address the assigned environmental problem and the smart and modern materials you used.	
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	24-11-2023 Day: Subject: Career Technolog			gy (	PT)			
Duration: 60MINS				Strand: Materials For Pro		duction		
Class: B9		Class Si	ass Size: Sub Strand: Smart & Mo		trand: Smart & Mode	dern Materials		
Content Standard: B9.2.3.1 Demonstrate understanding using smart and modern materials fo making 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				Lesson: 3 of 3	
Performance Indicator: Learners can demonstrate techniques projects that solve environmental promodern materials.			olems using smart and (CC), Critical Thinkin Solving (CP), Creativity			Coll ng a	nd Problem	
Reference: Caree								
New words: Prote	otypes, Materia	als, Prope	rties, Safety, Too	ols, Tecl	hniques			
Phase/Duration PHASE I: STARTER	Learners Activities Resources  Begin with a "Problem Exploration" activity. Present learners with a scenario involving an environmental issue in their local community.					esources		
	Ask them to brainstorm possible solutions using smart and modern materials.  Share performance indicators with learners.							
PHASE 2: NEW LEARNING	community. Encourage leaders and poiscuss their address envired projects using Explain how a chosen environment of products and address.  Provide learn or products and showcases.	arners to  ples or ex- unique p conmental  the process g smart an  to plan, de conmental  ps, assign  ps, assign  ps, assign  area in at their art	esses involved in modern mater esign, and construproblem.  each group an erother necessary mater and modern mater	lem and mow they creating rials.  uct solution rials relaterials or schools.	d its impact.  dern materials. can be applied to  g prototypes or  utions for the  mental problem to  to create artefacts  discontinuous descriptions of the contents of the contents of the contents of the create artefacts  but where learners	Samples or examples of smart and modern materials.		

	<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:	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.	