FAYOL INC. 0547824419

FIRST TERM WEEKLY LESSON NOTES WEEK 7

Week Ending: 17-11-2023		Day:		Subject: Career Technology (PT)		
Duration: 60MINS				Strand: Materials For Prod		duction
Class: B9		Class Si	ze:	Sub Strand: Resistant Mat		erials
B9.2.2.1 Demonstresistant material products/artefact	electing	Indicator: B9.2.2.1.1: Discuss the factors that influence the selection of resistant materials			Lesson: e I of 2	
understand safe p	working	es of compliant materials and (CC), Critical Thi		Core Competencie Communication and (CC), Critical Thinki Solving (CP), Creativi	Collaborationing and Problem	
Reference: Care	er Technology	Curriculu	m Pg. 83			
New words: Resi	stant, Materials	, Propert	ies, Safety, Tools			
Phase/Duration	Learners Act					Resources
PHASE I:					you're designing a	
STARTER	bridge to withstand extreme weather conditions.					
	What materials would you consider using, and why?" Encourage learners to share their initial thoughts.					
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PHASE 2:	Share performance indicators with learners. Start by reviewing the concept of resistant materials, discussing Pictures and					
NEW					charts of	
LEARNING	and equipment when handling these materials.				compliant materials	
	Resistant Materials 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 resisi and low moisture ab in plumbing, electric materials.	sorption. al cables,	PVC is widely used , and construction	
	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.		
	Discuss the various factors that influence the selection of resistant materials, such as purpose/function of the product, environmental conditions, durability, cost, and availability.			
	Engage learners in a group discussion where each group is tasked with exploring one of these factors in more detail.			
	Divide the class into small groups, and assign each group one of the factors influencing material selection.			
	In their groups, learners should brainstorm and share examples of situations where their assigned factor is crucial in selecting resistant materials.			
	Encourage learners to think critically and apply the knowledge they have gained.			
	Demonstrate the processes involved in working with resistant materials, such as cutting, shaping, joining, and finishing.			
	Highlight the importance of choosing the right tools and techniques for the specific material and its intended use.			
	 Assessment I. How does the purpose or function of a product influence the choice of resistant materials? Give an example. 2. Discuss the factors to consider when ensuring the durability of a resistant material in a product. 			
DI IACE 2	3. What safety measures should be taken into account when working with resistant materials and tools?			
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: 17-11-2023		Day:		Subject: Career Technology (PT)		
Duration: 60MINS		-		Strand: Materials For Production		luction
Class: B9		Class Size:		Sub Strand: Resistant Mate		erials
Content Standard: B9.2.2.1 Demonstrate skills in selection resistant materials for making products/artefacts		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:
	ties of compliant materials and (CC), Critical T		Core Competencie Communication and ((CC), Critical Thinkin Solving (CP), Creativi	nd Collaboration nking and Problem		
Reference: Caree	r Technology	Curriculu	m Pg. 86			
New words: Com	pliant, Materia	ls, Proper	rties, 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 performance indicators with learners.					
PHASE 2: NEW LEARNING	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 handle/ operator. Provide examples of safety measures such as ensuring tools are sharp and correctly set, keeping hands behind cutting edges, and fixing hacksaw blades properly.					

REFLECTION	Take feedback from learners and summarize the lesson.
REFLECTION	·
PHASE 3:	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. Use peer discussion and effective questioning to find out from
	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