## THIRD TERM WEEKLY LESSON NOTES WEEK 2

Week Ending: 07-07-2023 Day		Day:		Subject: Career Technology			
Duration: 60MINS			Strand: Designing & Making Of Artefacts				
Class: B8 Class Size		e:	Sub Strand: Design				
<b>Content Standard:</b> B8.5.2.1 Demonstrate knowledge and skills of Designing			Indicator:Lesson:B8.5.2.1.3: Write Design SpecificationsI of I			Lesson:	
Performance Indica	tor:	·c	Core Com			npetencies:	
Learners can write a	design spec	Curriculum	Da ( F		CP 6.5: CI	5.4: CI 5.2: CI 6.10:	
Reference: Career I	echnology	Curriculum	rg. 65				
Phase/Duration	Learners	Activities				Resources	
PHASE I:	Begin the lesson by engaging the students in a discussion						
STARTER	about arti	facts. Ask q	uestions such a	is:			
	What is a	n artifact?			:(+-)		
	<ul> <li>Can y</li> <li>Why</li> </ul>	ou give exa	imples of differences important in c	our culture and	history?		
	• • • • • • • • • • • • • • • • • • •	are ar thatts			inscory:		
	Explain that in this lesson, students will explore the process of designing and making their own artifacts.						
PHASE 2: NEW	Introduce	the concep	ot of design and	its role in crea	ting	Pictures and	
LEARNING	artifacts. [	Discuss the	elements of de	sign, such as sh	ape,	charts of food	
	color, tex	ture, and pa	attern.				
	Show examples of different artifacts, highlighting their unique designs and the materials used.						
	Assign each student or group of students a specific artifact type (e.g., jewelry, sculpture, functional object).						
	Instruct students to research and collect visual references of artifacts within their assigned category, focusing on design elements and techniques used.						
	Brainstorm learners to observe and identify problem situations in the environment. Engage them to write the problem situation Example:						
	• Excessive plastic waste generated at a local park due to lack of recycling facilities.						
	<ul> <li>Inefficient public transportation system causing long waiting times and overcrowding during peak hours.</li> </ul>						
	• Limited accessibility for individuals with disabilities in public spaces such as sidewalks and parks.						
	Brainstorm learners to explain design brief.						

A design brief is a document that outlines the objectives, requirements, and constraints of a design project.	
Guide learners to write a suitable design brief to address the problems identified above. Examples:	
<ul> <li>Design and make comprehensive recycling system for the park that encourages visitors to properly dispose of their plastic waste and promotes sustainable practices.</li> </ul>	
• Develop an innovative solution to optimize the public transportation system, reducing wait times, improving passenger flow, and enhancing the overall user experience.	
<ul> <li>Design and inclusive and accessible infrastructure for public spaces, ensuring that individuals with disabilities can navigate freely and safely, incorporating features such as ramps, tactile indicators, and appropriate signage</li> </ul>	
Brainstorm and guide learners to discuss the meaning of design specification.	
A design specification is a detailed document that outlines the specific requirements, characteristics, and features of a product, system, or design solution.	
Guide learners to develop and write the design specifications based on the areas analyzed, to serve as a guide for idea generation. Example:	
Design Specification I: Waste Management System	
The waste management system should be able to handle different types of waste, including recyclables, organic waste, and non-recyclable waste.	
It should promote proper segregation of waste at the source to facilitate recycling and reduce landfill waste.	
The system should be scalable and adaptable to different community sizes and waste generation rates.	
Give reasons for the specifications developed.	
Assessment I. What is the purpose of design specifications in the design process?	
<ol> <li>What are functional requirements, and why are they important in design specifications?</li> </ol>	
3. How do performance requirements contribute to the overall quality of a design solution?	
4. Why is it essential to include user requirements in design specifications?	
5. What role do compliance and standards play in design specifications?	

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.	
	Ask learners how the lesson will benefit them in their daily lives.	

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Content Standard: B8.5.2.1 Demonstra skills of Designing Performance Indica	ge and	Indicator: B8.5.2.1.4: Ge solutions	ator: 2.1.4: Generate Ideas/possible ions Core Cor			Lesson: 2 of 2 encies:	
Learners can generat	e Ideas/pos	sible soluti	ons		CP 6.5: CI	5.4: CI 5.2: CI 6.10:	
<b>Reference:</b> Career T	echnology	Curriculum	n Pg. 65				
Disco (Decestion		A				D	
Phase/Duration	Learners A	Activities	to review their	understanding	in the	ĸes	ources
STARTER	previous l	Revise with learners to review their understanding in the previous lesson.					
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	Share per	formance i	ndicators with l	earners.		<b>.</b>	
PHASE 2: NEW LEARNING	<ul> <li>Learners in their groups develop and write the design specifications based on the areas analyzed, to serve as a guide for idea generation.</li> <li>Design Specification 2: Transportation Solution</li> <li>The transportation solution should provide reliable and affordable transportation options to connect underserved areas with major destinations, such as schools, workplaces, and commercial centers.</li> <li>It should prioritize accessibility for individuals with mobility challenges, including wheelchair users, by ensuring vehicles and infrastructure are designed to accommodate their needs.</li> <li>The transportation solution should consider sustainability by incorporating eco-friendly technologies, such as electric or hybrid vehicles, and promoting the use of public transportation to reduce traffic congestion and carbon emissions.</li> </ul>						
	Use freehand to sketch at least three possible ideas/solutions. Write descriptive/annotated notes on each of the generated						
	Compare and select the best idea or design						
	Develop the selected idea and prepare the working drawings and folios.						
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