EaD Comprehensive Lesson Plans



or 0248043888

https://www.TeachersAvenue.net https://TrendingGhana.net https://www.mcgregorinriis.com

BASIC 7

WEEKLY LESSON PLAN – WEEK 2

Strand:	Materials for Product	ion	Sub-Strand:		Smart and Modern Materials			
	B7.2.3.1 Demonstrate understanding of the properties of smart and modern materials							
Content Standard:								
Indicator (s)	B7.2.3.1.1: Explore the general properties of smart and modern materials Performance Indicator: : Lear examples of smart and Modern						•	
Week Ending	19-01-2024							
Class	B.S.7	Class Size:	ass Size: Dura		ation:			
Subject	Career Technology	l	I				1	
Reference	Career Technology Curriculum, Teachers Resource Pack, Learners Resource Pack, Textbook.							
Teaching / Learning Resources	plastic, wood, metal, their composites.	astic, wood, metal, ceramics, glass and eir composites.			Core Competencies:		Critical Thinking and Problem Solving Communication and Collaboration	
DAY/DATE	PHASE 1 : STARTER	PHASE 2: M	MAIN				PHASE 3: REFLECTION	
MONDAY	Show Learners video and Pictures displaying Smart and Modern Materials.	2. Assist Learnaria 3. Learnaria 4. Using a types of Examples of Sm conduct colour c	and modern earners to s. s in small g ect the pro- s. Power Poi Smart ma art and M ive polym hanging li- control ge T MATERI ectric materies	n materials describe s groups discoperties of atterials. I odern Marers ers quid crystals. I ALS erials.	mart acuss the smart ation, ation, terials	and moder ne main fac and mode explain 5	ctors	Reflect on the properties of Smart and Modern Materials. Exercise; 1. Explain Smart and Modern Materials. 2. state 4 examples. 3. Explain 3 types of Smart Materials.
		Chromoactive materials.Magnetorheological materials.Photoactive materials.						

Smart and modern materials Factors that affect the Properties of smart and modern materials; exposure to stimuli, such as electric magnetic fields, stress, moisture and temperature. Volume distribution of forces yield strength **THURSDAY** 1. Discuss with Learners the effects of light on **Review Learners** Summarize the knowledge on the smart and modern materials and products. lesson. previous lesson. 2. Learners in small groups to discuss the effects of temperature on smart and modern materials and products and report to the class. 3. Assist Learners to explain how moisture affects products made from smart and modern materials and products Photo-chromic materials change reversibly colour with changes in light intensity. Usually, they are colourless in a dark place, and when sunlight or ultraviolet radiation is applied molecular structure of the material changes and it exhibits colour. When the relevant light source is removed the colour disappears Smart Materials Smart materials react to their environment · Smart materials change their properties in response to heat, light, or something else (depending on the They often change back to their original state when the heat or light (or whatever else affects them) is taken away · Some smart materials can let you make totally new Name of Teacher: District: School: