

## **EaD Comprehensive Lesson Plans**



or



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### **BASIC 8**

## **WEEKLY LESSON PLAN – WEEK 2**

Strand:	Material for Production		Sub-Strand:	Smart and Modern Materials	
Content Standard:	B8.2.3.1 Demonstrate understanding and the use of smart and modern materials				
Indicator (s)	B8.2.3.1.1: Discuss smart and modern materials		Performance Indicator: Learners can use Smart and Modern Materials.		
Week Ending	19-01-2024				
Class	B.S.8	Class Size:		Duration:	
Subject	Career Technology				
Reference	Career Technology Curriculum, Teachers Resource Pack, Learners Resource Pack, Textbook.				
Teaching / Learning Resources	Sand, Stone, Cement, Pictures, Poster, Video.		Core Competencies:	<ul style="list-style-type: none"><li>Communication and Collaboration</li></ul> Critical Thinking and Problem Solving.	
DAY/DATE	PHASE 1 : STARTER	PHASE 2: MAIN			PHASE 3: REFLECTION
MONDAY	Learners brainstorm to explain the meaning of Smart and Modern Materials.	<div>1. Assist Learners to identify 5 examples of Smart and Modern Materials.</div> <div>2. Discuss with Learners area where Smart and Modern Materials are in use.</div> <div>3. Demonstrate on how to use examples of Smart and modern materials.</div> <div>TYPES OF SMART MATERIALS<ul style="list-style-type: none"><li>Piezoelectric materials.</li><li>Shape memory materials.</li><li>Chromoactive materials.</li><li>Magnetorheological materials.</li><li>Photoactive materials.</li></ul></div> <div>Modern Materials</div> <div>Graphene: Developed from the same lead that is in your pencils Graphene is a super thin layer of graphite which provides a light weight, super strong, flexible material which is also a great conductor of heat and electricity. It is a fairly new material which is being developed into a wide variety of products such as vehicles, aeroplanes and sports racquets.</div> <div>Nano materials: tiny particles (nano) are woven into fibres to solve a whole range of problems. Deodorant in sports socks, antibacterial into wound dressings and</div>			Through questions and answers, conclude the lesson.  Exercise;  State examples each; <div><div>i. Smart materials</div><div>ii. Modern Materials.</div></div>

		<p>Teflon onto things like school uniforms to help keep them clean are just a few examples. These microscopic capsules are also called micro encapsulation.</p> <p>Technical textiles are functional modern materials being developed all the time to help make fabrics.</p>	
<b>FRIDAY</b>	Review Learners knowledge on the previous lesson.	<ol style="list-style-type: none"> <li>1. With the use of Personal Computers connected to the internet, Learners practice searching for examples of Smart and modern materials.</li> <li>2. Individual Learners to report on their searches.</li> <li>3. Discuss with Learners using other ICT tools to search on the internet examples of Smart and Modern materials.</li> </ol> <p><b>Properties of Smart and Modern Materials;</b> Smart materials are 'reactive materials'. Their properties can be changed by exposure to stimuli, such as electric and magnetic fields, stress, moisture and temperature.</p> 	<p>Summarize the lesson.</p> <p><b>Exercise;</b></p> <p>Mention 5 ICT tools that can be used to search on the internet for information on smart and modern materials.</p>

Name of Teacher:

School:

District: