

# EaD Comprehensive Lesson Plans



or



**0248043888**

<b>Strand:</b>	Materials for Production	<b>Sub-Strand:</b>	Compliant Materials
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**BASIC 9**

**WEEKLY LESSON PLAN – WEEK 7**

Content Standard:	B9.2.1.1 Demonstrate skills in selecting compliant materials for making products and artefacts														
Indicator (s)	B9.2.1.1.1: Discuss the factors that influence the selection of compliant materials		Performance Indicator Learners can identify factors to consider when choosing a compliant material to use.												
Week Ending	25-10-2024														
Class	B.S.9	Class Size:		Duration:											
Subject	Career Technology														
Reference	Career Technology Curriculum, Teachers Resource Pack, Learners Resource Pack, Textbook.														
Teaching / Learning Resources	Power point Presentation on the process of working with Compliant materials, Projector, Pictures showing compliant materials		Core Competencies:	<ul style="list-style-type: none"><li>• Communication and Collaboration.</li><li>• Critical Thinking and Problem Solving.</li><li>• Creativity and Innovation.</li></ul>											
DAY/DATE	PHASE 1 : STARTER	PHASE 2: MAIN			PHASE 3: REFLECTION										
WEDNESDAY	<p>Discuss with the Learners on the meanings of terminologies and keywords in the lesson.</p> <p><b>Terminologies;</b></p> <ul style="list-style-type: none"><li>• Construction</li><li>• Serviceability</li><li>• Permeability</li><li>• Shrinkage</li><li>• Elasticity</li><li>• Plasticity</li><li>• Stiffness</li><li>• Resilience</li><li>• Toughness</li><li>• Ductility</li><li>• malleability</li><li>• hardness.</li></ul>	<p>1. Briefly explain the term “Compliant materials” to the Learners.</p> <p>2. Assist Learners to identify examples of compliant materials.</p> <p>3. Discuss the properties of compliant materials with the Learners.</p> <p>4. Learners brainstorm to associate compliant materials with their correct practical applications.</p> <p>A compliant material is a material that conforms to regulations or even a building code. It is a material that has recognized, predictable and consistent properties. A material is a compliant material, if it conforms to a known performance criteria.</p> <table><tr><td>APPLICATION</td><td>MODELLING</td><td>SKETCH DESIGNS</td><td>RENDERING WITH MARKERS</td><td>PACKAGING CLEAR WINDOW</td></tr><tr><td>COMPLIANT MATERIAL</td><td>Extruded polystyrene foam (Styrofoam)</td><td>Layout paper Bleed proof paper</td><td>Layout paper Bleed proof paper</td><td>Acetate Polypropylene</td></tr></table>			APPLICATION	MODELLING	SKETCH DESIGNS	RENDERING WITH MARKERS	PACKAGING CLEAR WINDOW	COMPLIANT MATERIAL	Extruded polystyrene foam (Styrofoam)	Layout paper Bleed proof paper	Layout paper Bleed proof paper	Acetate Polypropylene	<p>Learners in small groups to discuss about the safe practices of working with compliant materials.</p> <p><b>Exercise;</b></p> <p>1. What are compliant materials?</p> <p>2. Give 5 examples of compliant materials.</p>
APPLICATION	MODELLING	SKETCH DESIGNS	RENDERING WITH MARKERS	PACKAGING CLEAR WINDOW											
COMPLIANT MATERIAL	Extruded polystyrene foam (Styrofoam)	Layout paper Bleed proof paper	Layout paper Bleed proof paper	Acetate Polypropylene											

<b>THURSDAY</b>	Review Learners knowledge on the previous lesson.	<ol style="list-style-type: none"> <li>1. Discuss with the Learners about the factors to consider when choosing a compliant material to use.</li> <li>2. Learners brainstorm to identify the factors that influence the selection of compliant materials.</li> <li>3. Assist Learners to describe the processes involved in working with compliant materials.</li> <li>4. Demonstrate on making artefacts from compliant materials.</li> </ol> <p><b>Factors to consider when choosing Compliant Material to use;</b></p> <p>a) Availability: Material should be available easily in the market.</p> <p>b) Cost: the material should be available at cheaper rate.</p> <p>c) Manufacturing Consideration: the manufacturing play a vital role in selection of material and the material should suitable for required manufacturing process.</p> <p>d) Physical properties: like colour, density etc.</p> <p>f) Mechanical properties: such as strength, ductility, Malleability etc.</p> <p>g) Corrosion resistance: it should be corrosion resistant.</p> <p><b>Important Factors:</b></p> <ul style="list-style-type: none"> <li>• Strength</li> <li>• Life of the material</li> <li>• Budget/Cost of material</li> <li>• Handling and Storage</li> <li>• Local availability</li> <li>• Climate</li> <li>• Skill required and its availability</li> <li>• Sustainability</li> <li>• Nature of project</li> <li>• Aesthetic appeal</li> </ul>	Assist Learners to practice making artefacts from compliant materials. <p><b>Exercise;</b></p> <ol style="list-style-type: none"> <li>1. Describe the processes involved in working with compliant materials.</li> <li>2. State 3 factors to consider when choosing compliant materials to work with.</li> </ol>
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School:

District: