

FIRST TERM

WEEKLY LESSON NOTES

WEEK 5

Week Ending: 10-02-2023	Day:	Subject: Career Technology	
Duration: 60MINS		Strand: Materials For Production	
Class: B8	Class Size:	Sub Strand: Resistant Materials	
Content Standard: B8.2.2.1 Demonstrate understanding of properties of resistant materials		Indicator: B8.2.2.1.1: Explain the basic properties of resistant materials	Lesson: 1 of 2
Performance Indicator: Learners can explain the basic properties of resistant materials.		Core Competencies: CP 6.5: CI 5.4: CI 5.2: CI 6.10:	
Reference: Career Technology Curriculum Pg. 47			
Phase/Duration	Learners Activities	Resources	
PHASE 1: STARTER	Recap with learners to find out what they already know about plastic, wood, metal, ceramics and glass. Share the performance indicators and introduce the lesson.		
PHASE 2: NEW LEARNING	Revise with learners on identifying the different materials used for the school building and present in the form of a two-column table under the headings 'Material' and 'Use'. Display the realia or pictures or show video of resistant materials and ask learners to describe them. E.g. <i>resistant materials refer to a group of materials that have certain common characteristics such as plastic, wood, metal, ceramics, and glass.</i> Guide learners to sort out resistant materials into various categories. E.g. plastics – thermoplastics and thermosetting plastics wood – hardwoods and softwoods metals – ferrous, non-ferrous, alloys and smart Brainstorm learners to explain what is meant by resistant materials. E.g., <i>Resistant materials are materials that are not pliable or flexible and cannot be easily compressed with bare hands (plastic, wood, metal, ceramics, and glass).</i> Engage learners to sort out resistant materials from the variety of available materials. E.g., <i>plastic, wood, metal, ceramics, glass and their composites,</i>	Realia, pictures, charts, videos, of wood, plastic, metal, ceramics, glass materials, samples of hard and soft wood, types of metals-ferrous, non-ferrous, alloys and smart, products from plastics, metals, ceramics, wood	

	<p>Have learners write down the summary of the explanation and sorting.</p> <p><u>Assessment</u></p> <ol style="list-style-type: none"> 1. What are resistant materials? 2. Give four examples of resistant materials. 	
<p>PHASE 3: REFLECTION</p>	<p>Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.</p> <p>Take feedback from learners and summarize the lesson.</p> <p>Ask learners how the lesson will benefit them in their daily lives.</p>	

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Phase/Duration	Learners Activities	Resources							
PHASE 1: STARTER	Revise with learners to review their understanding in the previous lesson. Share performance indicators with learners.								
PHASE 2: NEW LEARNING	Guide learners to discuss the physical properties of resistant materials. E.g., density, fusibility, electrical conductivity, thermal conductivity Have learners investigate the working properties of resistant materials; E.g., strength, hardness, toughness, malleability, ductility, elasticity Make a chart on the various properties of resistant materials. e.g. <table border="1" data-bbox="492 1186 1032 1295"> <thead> <tr> <th>Physical Properties</th> <th>Working Properties</th> </tr> </thead> <tbody> <tr> <td>Density</td> <td>Strength</td> </tr> <tr> <td>Fusibility</td> <td>Hardness</td> </tr> </tbody> </table>	Physical Properties	Working Properties	Density	Strength	Fusibility	Hardness	Pictures, Posters and illustrations	
Physical Properties	Working Properties								
Density	Strength								
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