SECOND TERM

WEEKLY LESSON NOTES

WEEK 10

Week Ending:	**Day:**	**Subject:** Career Technology	
Duration: 60MINS		**Strand:** Designing And Making Of Artefacts	
Class: B9	**Class Size:**	**Sub Strand:** Communicating Designs	
Content Standard: B9.5.1.1 Demonstrate understanding of developing surfaces of objects for production/ manufacturing	**Indicator:** B9.5.1.2.1- Describe the principles of orthographic projections		**Lesson:** 1 of 2
Performance Indicator: Learners can develop surfaces of pyramids using instruments		**Core Competencies:** CP 6.5: CI 5.4: CI 5.2: CI 6.10:	
Reference: Career Technology Curriculum Pg. 101			
New words: Materials, Tools, Mechanisms, Simple, Function, Purpose,			

Phase/Duration	Learners Activities	Resources
PHASE 1: **STARTER**	Revise with learners on the previous lesson. Share performance indicators with learners.	
PHASE 2: **NEW LEARNING**	Explain what is meant by orthographic projection. E.g. Drawing the three views of objects in two dimensions. Discuss the principles of orthographic projections for both first and third angle orthographic projections. E.g. - For first angle (British method), the plan is projected below the front view - For third angle (American method), the plan is projected above the front view. Note: Use mock-ups to facilitate understanding Sketch the symbols for first and third angle orthographic projections. Discuss the importance of drawing orthographic projections of objects. E.g., To get detailed dimensions of parts for production of artefacts/ products.	

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.	

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Class: B9	**Class Size:**	**Sub Strand:** Communicating Designs	
Content Standard: B9.5.1.1 Demonstrate understanding of developing surfaces of objects for production/ manufacturing	**Indicator:** B9.5.1.2.2.2: Draw objects in first and third angle orthographic projection		**Lesson:** 1 of 2
Performance Indicator: Learners can draw objects in first and third angle orthographic projection		**Core Competencies:** CP 6.5: CI 5.4: CI 5.2: CI 6.10:	
Reference: Career Technology Curriculum Pg. 101			
New words: Materials, Tools, Mechanisms, Simple, Function, Purpose,			

Phase/Duration	Learners Activities	Resources
PHASE 1: **STARTER**	Revise with learners on the previous lesson. Share performance indicators with learners.	
PHASE 2: **NEW LEARNING**	Sketch objects in pictorial indicating the appropriate dimensions, and directions of the three views (front view, plan and end view). Draw the three views to the given dimensions, at their respective positions using the appropriate projection lines. Note: Draw the front view first. Indicate the dimensions on the views and label the views appropriately. Use the idea to prepare detailed drawings of artefacts to be made.	

	Project work: Go round the community, observe artefacts and draw four (4) artefacts in both first and third angle orthographic projections. Prepare a sketch album and present in class for appraisal	
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.	