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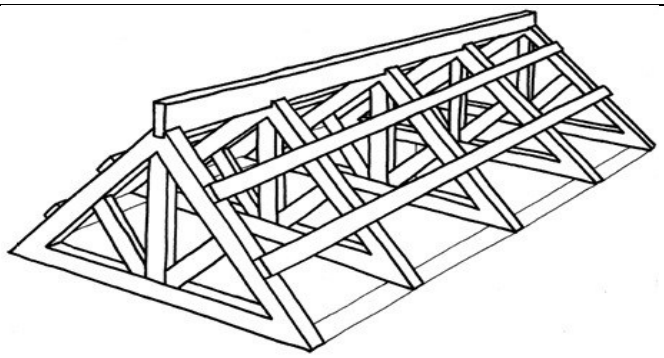
BASIC 7

WEEKLY LESSON PLAN – WEEK 2

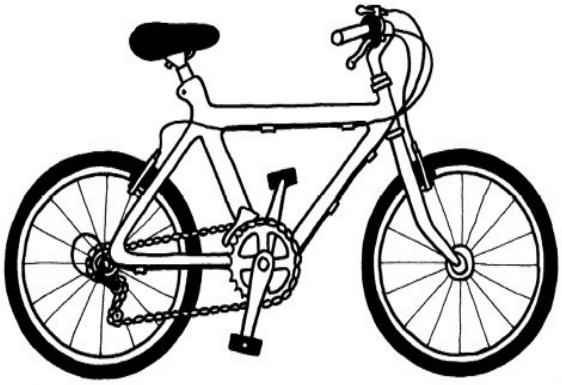
Strand:	Technology		**Sub-Strand:**	Simple structures and mechanisms, electric and electronic systems	
Content Standard:	B7.4.1.1 Demonstrate understanding of structures in frame construction				
Indicator (s)	B7.4.1.1.1: Outline the uses of structures in frame construction		**Performance Indicator:** Learners can identify examples of structure in construction.		
Week Ending					
Class	B.S.7	**Class Size:**		**Duration:**	
Subject	Career Technology				
Reference	Career Technology Curriculum, Teachers Resource Pack, Learners Resource Pack, Textbook.				
Teaching / Learning Resources	Poster, Pictures and Video		**Core Competencies:**	• Communication • Critical thinking • Creativity and Innovation	

DAY/DATE	**PHASE 1 : STARTER**	**PHASE 2: MAIN**	**PHASE 3: REFLECTION**
MONDAY	Learners brainstorm to explain what is meant by structures in construction.	1. Discuss with Learners about examples of structures in construction. 2. Show to Learners pictures and video of examples of Structures in construction. 3. Assist Learners to classify structures under natural and man-made. **Structure in Construction;** Within the context of the built environment , the term 'structure' refers to anything that is constructed or built from different interrelated parts with a fixed location on the ground. This includes complete items such as buildings, and parts of items, such as arches. **examples of structures include:** • Aqueducts. • Bridges. • Cooling towers. • Dams. • Oil rigs.	Through questions and answers, conclude the lesson. **Exercise;** 1. What is Structure in Construction? 2. State 5 examples of Structures in Construction

		• Retaining walls. • Scaffolding. • Tunnels  **Load bearing structure**  **Truss Structure**	
THURSDAY	Through questions and answers, review Learners knowledge on the previous lesson.	1. Assist learners to classify structures under frame and shell. 2. Learners in small groups to discuss and report to the class on the uses of structures in Construction. 3. Assist Learners to make sketches of both frame and shell structures and prepare photo albums to use as materials for learning structures. • **Frame structures**: Crane, electricity pylon and building • **Shell structures:** Body of motor car shaped from panels. **Frame structures** A frame structure consists of different parts. These parts are combined in such a way to make the structure strong. A ladder and a bicycle are good examples of man-made frame structures. Spiderwebs are natural frame structures.	Individual Learners brainstorm to make sketches of both frame and shell structures and display photo albums for appraisal.



This roof frame is a frame structure made from wooden planks, a natural material. The planks support the roof.



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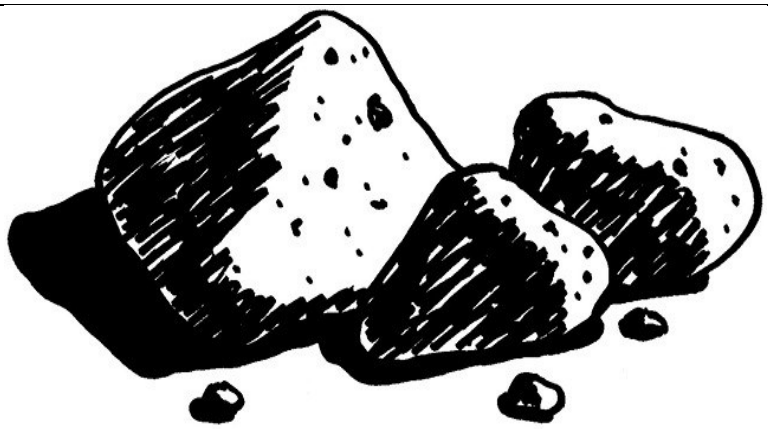
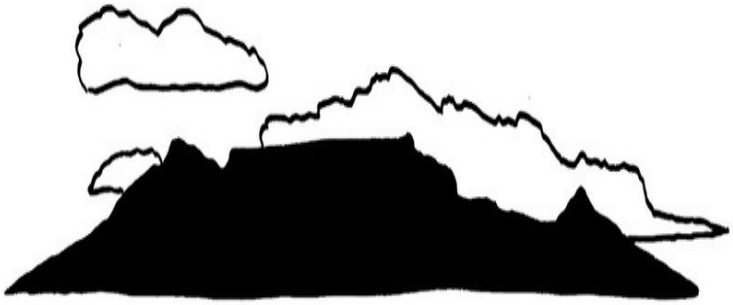
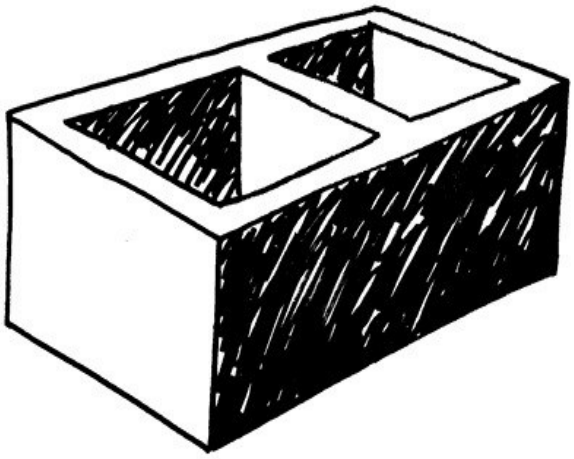
Solid structures

Structures like rocks, bricks and cement poles are solid. They do not consist of different parts with open spaces between them. A stone is a natural solid structure and is one piece of material. A brick is a man-made solid structure.

		    **Combined structures** ✓ The bricks, roof tiles or roof sheets are all solid structures. ✓ The different rooms of the house is a shell structure.	

		✓ The framework on which the roof tiles or sheets rest are called roof trusses, and are frame structures. ✓ Classify the following structures in the table below as **shell, frame or solid structures:** a house; electricity pylon; tortoise shell; cellphone tower; human skull; brick; garden chair; spiderweb and dog kennel; wooden logs; chicken eggs and rocks.	

Name of Teacher: ***School:*** ***District:***