EaD Comprehensive Lesson Flans



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BASIC 8

WEEKLY LESSON PLAN – WEEK 10

Strand:	Humans and the E	Environment Sub-Strand:		Unde	Understanding the Environment		
Content Standard:	B8.5.5.1 Demonstrate understanding of the differences among soils, plant roots, stems, leaves, flowers, and fruits of plants in the different environments						
Indicator (s)	B8.5.5.1.2 Analyze	ss physical properties of soils ze the physical properties of trate their importance for crop Performance Indicator: learners of physical properties of the various type of the various t					•
Week Ending	01-09-2023	01-09-2023					
Class	B.S.8	Class Size: Duration:					
Subject	Science	-	l .			1	
Reference	Science Curriculum, Teachers Resource Pack, Learners Resource Pack.						
Teaching / Learning Resources	Poster, sample of Video.	Со	CriticaProbleComm			al Literacy cal Thinking and em Solving munication and boration.	
DAY/DATE	PHASE 1 : STARTER	PHASE 2:	MAIN				PHASE 3: REFLECTION
MONDAY	Present samples of the various types of Soil to the class for Learners to observe.	 Learne observ Discus Assist the val Condu soil type crops. 	ent				
		Properties of Soils					
		Property/bel	navior	Sand	Silt	Clay	physical properties of Soil.
		Water-holding	g Lo	v	Medium to high	High	

Aeration	Good	Medium	Poor	
Drainage rate	High	Slow to medium	Very slow	
Soil organic matter level	Low	Medium to high	High to medium	
Decomposition of organic matter	Rapid	Medium	Slow	
Warm-up in spring	Rapid	Moderate	Slow	
Compactability	Low	Medium	High	
Susceptibility to wind erosion	Moderate (High if fine sand)	High	Low	
Susceptibility to water erosion	Low (unless fine sand)	High	Low if aggregated, otherwise high	
Shrink/Swell Potential	Very Low	Low	Moderate to very high	
Sealing of ponds, dams, and landfills	Poor	Poor	Good	
Suitability for tillage after rain			Poor	
Pollutant leaching potential	High	Medium	Low (unless cracked)	

		Ability to store plant nutrients	Poor	Medium to High	High	
		Resistance to pH change	Low	Medium	High	
THURSDAY	Review Learners knowledge on the previous lesson.		erties of Soil. Is to identify the storm to experties of Soil. Instorm to experties of Soil.	the suitabiliter crop production the important the soil are want the sustant on the aboution as well as low hydrofree supply of the suitable countries.	y of the duction. ortance of the bil very important cainable use of and nutrient ility of the las the ability aulic of water and	Learners in small groups to discuss and relate soil physical properties to the chemical properties and crop yield. Exercise; Explain 4 importance of the physical properties of Soil.
FRIDAY	With the use of a Chart, explain briefly the meaning of Soil Structure.	 Assist learners to explain 5 types of Soil Structure Discuss with Learners about the meaning and methods of Soil Conservation. Learners brainstorm to identify the importance of Soil Conservation. Soil Structure Definition Soil structure can be defined as the way individual particles of sand, silt, and clay are assembled together. Single particles when assembled appear as larger particles. These are called aggregates. Humus is a major deciding factor to know about the structure of soil because it causes the soil to become more porous and allows water and air to penetrate deep underground. Types of Soil Structure Very fine or very thin 			Show Learners a video of how Soil is formed. Ask Learners questions about the video they watched, and answer Learners questions.	

- Fine or thin
- Medium
- Coarse or thick
- Very coarse or very thick.

What is Soil Conservation?

Soil conservation is the process of prevention of loss of the topmost layer of the soil from erosion or prevention of reduced fertility caused by over usage, acidification, salinization, or other chemical soil contamination. By conserving soil we can preserve the fertility of the soil. Few methods of conserve them are:

- Terrace Farming
- Soil Conservation Farming
- Use of Green Manures
- Salinity Management

Formation of Soil

The formation of soil is a <u>complex</u> natural process. The uppermost layer of the earth crust is made up of soil. Soil contains minerals, organic matter and living organisms. The formation of soil takes place by breaking of rocks by physical and chemical agents.

There are three agents of soil formation which are as following .

- Mechanical Processes: The formation of soil when happens due to any of the mechanical forces, then these are called mechanical Processes. For example wind and rain.
- Chemical Processes: Chemical processes are those Processes in which rocks break due to <u>chemical</u> reactions.
- Biological Processes: Biological processes are those processes in which any biological change results in the formation of soil. For example the lichens present on the rocks a certain chemical which results in the formation of soil.

Name of Teacher: School: District: