# SOIL FORMATION PROCESSES

#### MINERALISATION



- Definition: process where organic matter in the soil is broken down by microorganisms into mineral nutrients such as nitrogen, phosphorus and potentium (turnover: organic matter -- inorganic)
- Microorganisms: Ting organisms such as bacteria and fungi break the organic matter — simple mineral (inorganic) compounds.
- Mutrients: Organic matter -- converted to mineral nutrients > taken up by plants = growth and development
- Decomposer (nitrates, phosphates & sulphates) carbon, hydrogen + osygen → inorqunic - CO, & H,O
- Environmental requirements: suitable temperature, humidity, and a pitt balance favourable for the activity of microorganisms.
- Importance for Plants: nutrient release soil fertility healthy plant growth.

#### HUMIFICATION

- Guffinition: transformation plant + animal residues humas
- Organic matter deposition: Dead plants, enimals and microorganisms > into the soil, retaining organic matter in the upper layers of the soil.
- Decomposition: Microorganisms such as bacteria and fungi break down the organic matter by decomposition processes (@ simple - sugars \* starch: @ proteins \* cellulose; @ tannin.)
- Formation of humas: decomposition → organic matter (breakdown of organic compounds) = humas = dark-coloured, rich substances (not easily decomposed)
- Humification: accumulation of humos in the soil bearing a improves soil fortility - 1 water retention and nutrients.
- Depth distributions: Humification occurs in the tapsail, which extends deep into the horizons of the soil.
  - 39 to Noted Summaries (Grade 10 Agricultural Sciences)

### LEACHING

- Definition: movement of soil particles through water passing through the soil (freely-downward)
- Requirements for Leaching: Presence of water that can pass through the soil freely (e.g. rainfall or irrigation) + Soil structure - water permeability (sand large pores)
- 4 Factors That Promote Leaching
  - Peer or no vegetation cover that enomates enssion.
  - Steep slopes that allow water to deale down quickly.
  - a Loose soil structure that is easily moved by water.

## impacts of Leaching

- a Loss of fertile topical plinthite formation.
- Clogging of rivers and streams with mud.
- Reduction in water quality & nutrients (metal ions\*)
- Dissalved materials deep aroundwater / surface water

## PLINTHITE formation

- Definition: movement of the groundwater table up and down over the scasons groundwater table rises during wat seasons and decreases during dry seasons (hat humid drafts - trapical climate)
- 4 influence
  - wet seasons increase rainfall the groundwater table deeper lying soil layers - water (waterlogged) - chemical changes [iron -- ferro]
  - is dry season. lower table [iron. ferri]
- Formation of Plinth layers: Repeated movements of the groundwater table = deposits of soil particles and minerals at different depths = plinth layers → succession of different soil textures and colours
- Plinthite addited iron horizon = red colour (aluminium + iron bands left behind after leaching of allegates from surface sell)
- Leach silicate (silicon) Heached downwards potassium, calcium + magnesium ions easily leached
- Physical Properties of Soil water retention, drainage, and air space between soil particles



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