

St Mary's

Term Timeline — Term 1

Agriculture · Grade 10 · STEM · Kisumu County

TPAD Evidence — Portfolio Assessment · Agriculture · Grade 10 · 20 March 2026 · Ref: ASSESSKE-AGR-G10-TML-20260320

Teacher: Kilimo Bora

Date: 20 March 2026

Term 1 · 10 weeks · Agriculture · Grade 10

WEEK
1

Introduction to soil science and local soil types

School compound soil survey and basic classification

Introduction to field observation journal setup and protocols

Evidence target: First observation journal entry with soil type identification **Teacher:** Demonstrate soil texture tests and establish observation protocols

WEEK
2

Soil sampling techniques and site selection

Visit to nearby market garden for soil sampling demonstration

Practice proper sampling techniques and sample preparation

Evidence target: Documented soil sampling procedure with site descriptions **Teacher:** Guide site selection and ensure proper sampling technique

WEEK
3

Physical soil analysis - texture and structure

Conduct jar test for soil texture analysis

Observe and record soil structure characteristics

Evidence target: First soil analysis report section on physical properties **Teacher:** Supervise jar tests and help with data interpretation

WEEK
4

Chemical soil analysis - pH and basic indicators

pH testing using field test kits on collected samples

Introduction to soil chemistry concepts and indicator interpretation

Evidence target: Chemical analysis section added to soil report **Teacher:** Demonstrate pH testing and discuss result interpretation

WEEK
5

Organic matter assessment and biological indicators

Organic matter content estimation using visual and simple tests

Observation of soil organisms and biological activity indicators

Evidence target: Biological assessment section of soil analysis report **Teacher:** Guide organic matter assessment and help identify soil organisms

WEEK 6	Field observation patterns and data analysis Review and analyze accumulated observation journal data Identify patterns in soil conditions across different locations Evidence target: Data analysis summary in observation journal Teacher: Facilitate data pattern recognition and analysis techniques
WEEK 7	Soil management principles and local practices Research traditional and modern soil management practices in Kisumu area Interview local farmers or extension officers about soil management challenges Evidence target: Research notes and farmer interview documentation Teacher: Coordinate farmer interviews and guide research process
WEEK 8	Management plan design and resource planning Draft soil management plan based on analysis findings Calculate resource requirements and create implementation timeline Evidence target: Draft management plan diagram with resource calculations Teacher: Provide feedback on plan feasibility and resource estimates
WEEK 9	Peer review and plan refinement Present management plans to peers for structured feedback Refine plans based on peer input and additional research Evidence target: Peer review forms and revised management plan Teacher: Facilitate peer review sessions and guide plan improvements
WEEK 10	Portfolio completion and final reflection Complete all portfolio components and organize evidence Write final reflection on learning journey and skill development Evidence target: Complete portfolio with final reflection piece Teacher: Conduct individual conferences and provide final feedback