GHANA STEM ACTION PLAN

An Overview
Phase 1 - Preparation
• Buy-in and sensitization

Phase 2 - Initiation
• School Selection
• Training:
  • Training of Master Trainers
  • Training of STEM teachers at National Resource Center
  • Local teachers

Phase 3 - Launch
• Implementation in classrooms

Phase 4 - Evaluation
• IE: Sep 2019 midline
PHASE 1 - PREPARATION DETAILS
APRIL TO JUNE 2017

- Ministerial De-briefing and buy-in
- Formation of Project Implementation Committee - sub committee of SEIP
- Develop and Presentation of Action Plan
- Selection of 20 Pilot schools to be branded as STEM Alliance Schools – Selection will be by stratified random sampling method
- Identification of experts and partners
PHASE 2 - INITIATION DETAILS
JULY 2017 TO JULY 2018

- Review of SEIP Baseline Survey Report

- Curriculum:
  - Curriculum Alignment with the support of New Jersey Centre for Teaching and Learning (NJCTL)
  - Sequencing of the Topics – Physics and Mathematics first followed be Chemistry and Biology this will enhance learning outcome

- Material Development:
  - Select textbooks and scripted lessons

- Develop Special Learning Strategy
  - Academic Model prepared

- Training:
  - Resource Preparatory Manual – Int and Local Consultants to be be used
  - Training Master Trainers on PSI – PMI Approach using
  - National Resource Centre becomes the training center
  - Master trainers move into SEIP school nearby to practice
  - CoE Tutors

- Resource Team: (expertise in curriculum design, pedagogical research, instructional design, ICT)
  - University Lecturers
  - Curriculum Officers
  - MOE/GES Science Officers
  - Trainers – International Consultants
PHASE 3 - IMPLEMENTATION DETAILS
SEP 2018 – SEP 2019

- New Strategy will start with SHS 1
- Special Launch of Ghana STEM Alliance Schools with Academic Model Package
- Design Special Classrooms for the Pilot Schools (seating arrangements)
- Implementation for one year
PHASE 4 — EVALUATION
OCTOBER 2019 — DECEMBER 2019

- IE Midline survey
  - Teacher assessment
  - Student Assessment
How will NJCTL support in (i) curriculum alignment and (ii) training
  - Support for assessment (tablets, polling devices)
  - Database of experts especially in Africa
  - Templates for Recording and Reporting