Special Program in Science, Technology & Engineering

Thoughts & Reflections
Brief Background

• Engineering and Science Education Program (ESEP)
• A World Bank-funded project of DOST
• 112 original + 86 additional + 2 ARMM
• Provided with a science building, equipment, teacher training, materials
1. Write name /contact number of your school
2. Write O for original and A for additional
3. Year when ESEP/SPSTE was implemented in your school
4. Total number of years of Implementation
5. Is the community aware of the science program in your school? To what extent?
   1 – not at all          5 – very much
Curriculum

• Core curriculum + additional subjects
• Unified curriculum for all schools offering a science program including the PhiSci System
• Enhanced science curriculum for both Regional Science HS and SPSTE
• SHS -- Academic Track, STEM strand
6. Re - additional subjects, are there teachers with education and training in these subjects? If not, what interventions were made?

7. How many hours do the students of SPSTE spend each day in school?

8. Is the SPSTE curriculum
   - Appropriate? + Balanced?
   - Heavy? + Not relevant?
Class Organization

- Student Admission standards
- Class size or Teacher-Student ratio
- Retention standards
- Grading System
- Selection of Honor Students
- Teacher qualification
- Teacher workload
Reflect

9. In organizing the SPSTE classes, which is the most challenging? Why?

10. Are there standards that need to be revised, included or deleted?

11. Who supervises the SPSTE?

12. How many SCPs should be offered by a school?
Performance Indicators

- Enrolment; as percent of the total
- NAT MPS
- NCAE: GSA, SA
- Drop out rate
- Completion Rate
- Cohort Survival Rate
- Participation in Science-related activities
Questions

13. Since Program implementation, describe the performance indicators by writing I for increasing; D for decreasing and F for fluctuating –

- Enrolment + dropout rate
- Completion rate + CSR

14. In science-related activities, at what level have the students participated?

- participated? + won awards/recognition?
Non/Under-performing schools

- Performance in terms of the NAT/NCAE
  - NAT (in English or Sci & Math) – 80%?
- Performance in school/program mandate
  - Science – high performing in the NAT participation in science fairs
- Performance in terms of SCP requirements
  - Grade requirement of students
  - Standard equipment/furniture of the program
Evaluation of SPSTE

- Program monitoring and evaluation
  - Unified; In partnership with RO? Mandate?
- Tracer Study
  - How many of the graduates go into STE courses
- Performance Audit
  - Results; Areas for Improvement; Action Plan
- Utilization of Program Support Fund
Program Support Fund

- Program Support Fund: Additional MOOE
- Fixed and variable allocation + allocation for CO activities
- Variable allocation: based on number of students (STE)
- Developmental vs Sustainability Fund
- Allowed vs Not allowed expenditures
Answer the following questions:

15. Since the program support fund was provided, in what year/s did you NOT
   • Receive the fund?
   • Liquidate the fund?
   • Submit a technical and financial report?

16. What is your school’s average disbursement rate of the fund?

17. What challenges did you encounter in the utilization of the fund?
Task to do

• For 2014, submit an action plan to utilize the program support fund.
• The plan must include some facts and figures to justify the procurement of goods or services for the SPSTE.
• The plan must be included in the school’s Improvement Plan (SIP)