School Application

TGUP's Science Lab in a Box (SLaB) is available at no charge to schools that are qualified to use it appropriately. Please complete the below questions and return the completed form by email to cathyd@tgup.org

School Name, Address, and website: Shree Gamvir Samudra Setu Secondary School, Mahalaxmi Municipality, Ward No-02, Lalitpur

Principal's name and email address: Nira Kumari Shrestha, gamvir09@gmail.com

Senior Science Department official overseeing SLaB, and email address:
Prabin Basukala, kec.prabin@gmail.com

Does your school have dedicated space for a science lab? Yes

Does that space have adequate work areas for conducting experiments? Yes

Does that space have locking cabinets to ensure security of equipment? Yes

Does the room have electricity? Yes

Circle which laboratory classes are part of the school's formal curriculum:
Biology Chemistry Physics (All) Other: Survey, building, GIS…

Is there a dedicated, university-trained teacher for each class? Yes

Does your school meet the standards for national university matriculation? Yes

How many students in the school ? 1550 #Boys 852 #Girls 688

How many teachers in the school? 41

80 of students who study laboratory science in any given year 2023, 2024, 2025

80 who study Biology in any given year	2023
80 who study Chemistry in any given year	2024
80 who study Chemistry in any given year	2025

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प्रधानाध्यापक

School Application

The Global Uplift Project's Science Lab in a Box (SLaB) helps high schools deliver science education at international standard quality. It provides instruments, equipment, and supplies to carry out laboratory work in Physics, Chemistry, and Biology.

This document defines the requirements a school must meet to be a candidate for receiving a TGUP Science Lab in a Box. The requirements are intended to ensure that the SLaB is effectively utilized and that students are commensurately benefited

Requirements:

Staff

Recipient schools must have credentialed teaching staff trained at a university level in the fields of Physics, Chemistry, and Biology. Staff must be competent to set up a working laboratory, to conduct standard experiments as defined in the SLAB, and be able to test for learning according to national standards.

Curriculum

Courses in at least two of Physics, Chemistry, and Biology must exist as part of the school's standard curriculum. The courses must include laboratory work and be geared to nationally-normed exams required for university matriculation

Facilities

The school must have facilities competent for hosting standard laboratory work This includes, but is not limited to, work benches with water, electricity, and gas Facilities must exist to lock away expensive equipment when not being used.

Feedback

Schools and teachers must be willing to work with TGUP to report on the outcome of the SLAB and students' work. This includes: reporting on the adequacy of equipment for individual experiments; reporting on nationally normed test scores and matriculation rates before and after SLaB installation.

Qualification Requirements for TGUP's Science Lab in a box

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Physics Experiment

Currently Doing	Currently Doing	Will do with SLaB	Will not Do	Not in cirriculum
1. Free Falling Projectiles		✓		
2. Newton's Laws in Equilibrium		✓		
3. Circular Motion	✓			
4. Work & The Conservation of Energy		✓		
5. Simple Harmonic Oscillators		✓		
6. Impulse & Conservation of Momentum		✓		
7. Sound and Light Wave Phenomenon		✓		
8. Electrostatics, Ohm's Law & Circuits	✓			
9. Magnetism/Electromagnetic Induction		✓		
10. Geometric Optics Mirrors & Lenses	✓			

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TGUP'S Science Lab in a Box (SLaB)

Biology Experiment

Currently Doing	Currently Doing	Will do with SLaB	Will not Do	Not in cirriculum
1.DNA Extraction		✓	✓	
2. Classifying Plant & Animal Cells		✓		
3. Solute Concentration Effect on Cells		✓		
4. The Cell Cycle			✓	
5. Photosynthesis		✓		
6. Fermentation		✓		
7. Bacterial Growth		✓		
8. Natural Drug Discovery		✓		
9. Food Web Using Owl Pellets		✓		
10. Water Quality Testing		✓		

Chemistry Experiment

Currently Doing	Currently Doing	Will do with SLaB	Will not Do	Not in cirriculum
1. Mass, Volume and Density		✓		
2. Chemical Reactions & Reagents	✓			
3. Identifying Cations		✓		
4. Acid-Base Titration	✓			
5. The Universal Gas Constant		✓		
6. Specific Heat of Metals		✓		
7. Acid/Base Reactions	✓			
8. Products of Combustion		✓		
9. Temperature vs. Reaction Rate		✓		
10. Temperature vs. Solubility		✓		

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