TGUP's Science Lab in a Box
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 NCDP: kimydala@yahoo.co.uk

School name and address: BUKANDULA COLLEGE SCHOOL, GOMBA DISTRICT

Principal's name and email address: KYABANGI ABDUL SEMU · cbukandulacollegeschool@gmail.com

Senior Science Department official overseeing SLaB, and email address:

KYABANJI FAHAD SEMU · Kyabanjifs45@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 water? YES gas? YES

Circle which laboratory classes are part of the school's formal curriculum:

(Biology) — (Chemistry) — (Physics) — Other: ICT

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? 500 # Boys 229 # Girls 271

How many teachers in the school? 20

Science Education Performance Summary: Academic Year: 2025

Biology Program Performance

Student Enrollment:

- Number of O-Level Biology Students: 120
- Number of A-Level Biology Students: 10

O-Level Biology Results: Test Date: 2025 (Uganda Certificate of Education - UCE)

- School Average Score: B
- Pass Rate (Grades 1–6): 70 %

A-Level Biology Results: Test Date: 2025 (Uganda Advanced Certificate of Education - UACE)

- School Average Score: B
- Pass Rate (Grades A–E): 80 %

Chemistry Program Performance

Student Enrollment:

- Number of O-Level Chemistry Students: 120
- Number of A-Level Chemistry Students: 10

O-Level Chemistry Results: Test Date: 2025 (UCE)

- School Average Score: B
- Pass Rate (Grades 1–6): 70 %

A-Level Chemistry Results: Test Date: 2025 (UACE)

- School Average Score: B
- Pass Rate (Grades A–E): 80 %

Physics Program Performance

Student Enrollment:

- Number of O-Level Physics Students: 120
- Number of A-Level Physics Students: 10

O-Level Physics Results: Test Date: 2025 (UCE)

- School Average Score: B
- Pass Rate (Grades 1–6): 70 %

A-Level Physics Results: Test Date: 2025 (UACE)

- School Average Score: B
- Pass Rate (Grades A–E): 80 %

Higher Education Progression: For the Academic Year 2025

- Total number of graduates: _____
- # of graduates proceeding to university/college: 31
- # of graduates planning on university studies in STEM (Science, Technology, Engineering, and Mathematics Fields): _____%

Is your school willing to provide structured feedback to TGUP on:

- Specific outcomes at the experiment level? Yes
- Overall outcomes at the class level? Yes
- Improvements on standardized national tests at the school level? Yes
- Improvements to matriculation at the school level? Yes

School Principal's signature and date:

KUABANGI ABDUL 21/01/2026

Science Dept. Official's signature and date:

21/01/2026

NCDP Official's signature and date:

TGUP'S Science Lab in a Box (SLaB)

IDENTIFY WHICH EXPERIMENTS YOUR SCHOOL IS DOING OR PLANS TO DO

Biology Experiments

	Currently doing	Will do with SLaB	Will not do	Not in curriculum
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 Experiments

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		✓		

Physics Experiments

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	✓			