

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 cathyd@tgup.org.

School Name, Address, and website: chamunda Secondary School.
Gokarneshwar Municipality, Ward No: 6, Kathmandu

Principal's name and email address: Gunaram Acharya, 99841269862@gmail.com

Senior Science Department official overseeing SLaB, and email address:

Somnath Acharya

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? NO

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

Biology Chemistry Physics Other: ASTRONOMY

Is there a dedicated, university-trained teacher for each class? NO

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

How many students in the school? 2159 # Boys 971 # Girls 1188

How many teachers in the school? 36

of students who study laboratory science in any given year _____

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





TGUP'S Science Lab in a Box (SLaB)

IDENTIFY WHICH EXPERIMENTS YOUR SCHOOL IS DOING OR PLANS TO DO

Biology Experiments

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

| Currently doing | Will do with SLaB | Will not do | Not in curriculum |
|-----------------|-------------------|-------------|-------------------|
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| | ✓✓ | | |

Chemistry Experiments

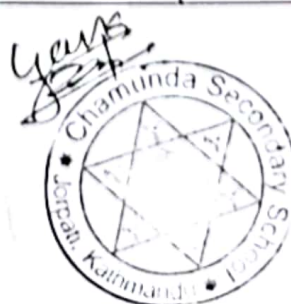
1. Mass, Volume and Density
2. Chemical Reactions & Reagents
3. Identifying Cations
4. Acid-Base Titration
5. The Universal Gas Constant.
6. Specific Heat of Metals
7. Acid / Base Reactions
8. Products of Combustion
9. Temperature vs. Reaction Rate
10. Temperature vs. Solubility

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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

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who study Biology in any given year: 300

who study Chemistry in any given year: 300

who study Physics in any given year: 300

% of students who matriculate every year to college or university 80%

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

Name (if any) of the TGUP partner who has brought SLaB to your school's attention:

School Principal's signature and date:

Guy's 2081-04-25.



Science Dept. Official's signature and date:

SLa

TGUP Partner (or equivalent) Official's signature and date:

TGUP * (650) 575-3434 * 4164 Stanford Way, Livermore, CA 94550 * tgup.org
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