



# TGUP'S Science Lab in a Box (SLaB)

School Name: Pinnacle Scholars' Academy

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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✓			✓
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