Lab 1 (GPM & Mechanics) & (Lab2) Electricity â€“ Thermal Physics

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Lab 1: GPM & Mechanics
1. Identify and demonstrate the proper use of vernier calipers and screw gauge to measure the dimensions of objects accurately (Knowledge, Application)
2. Analyze and interpret the data obtained from measurements using graphical representation techniques (Analysis, Evaluation)
3. Calculate the moment of inertia of a flywheel using experimental data and mathematical formulas (Synthesis, Evaluation)

Lab 2: Electricity - Thermal Physics
1. Utilize digital timing techniques to accurately measure time intervals in electrical experiments (Application, Analysis)
2. Determine the viscosity of water using the capillary flow method and analyze the results (Analysis, Evaluation)
3. Measure resistance using Carey Fosterâ€™s Bridge and calculate the unknown resistances (Application, Synthesis)
4. Investigate the mutual inductance between a pair of coils using a ballistic galvanometer and analyze the experimental data (Analysis, Evaluation)