

LIST OF EXPERIMENTS

CHEMISTRY

- (1) Model Making with Balls and Sticks
- (2) Jumping Sodium
- (3) Dye Preparation
- (4) Artificial Blood
- (5) Dancing Naphthalene Balls
- (6) Surface Tension Experiment
- (7) Making of Polymer
- (8) Natural Indicators
- (9) Peacock tears (glycerin)
- (10) Food Adulteration
- (11) Traffic Signals

PHYSICS

- (1) Dispersion of Light
- (2) Interference
- (3) P-N Junction Diode
- (4) Transistor
- (5) Surface Tension
- (6) Magnetic Lines of force

MATHEMATICS

Part I

- (1) Golden Ratio
- (2) Fibonacci numbers or series
- (3) 3-D solid geometry model
- (4) Wolfram Mathematica
- (5) Matlab
- (6) Wolfram Alpha

Part II

- (1) Integration Calculation Model
- (2) Probability
- (3) Abacus
- (4) Value of π up to 31 digits after decimal (Vedic Mathematics)
- (5) Trigonometry model

BOTANY

- (1) White flower multi colored "Capillary action "
- (2) Types of Leaf Samples Vein Structure
- (3) Chloroplast Pigments by chromatography method
- (4) DNA Replication structure

ZOOLOGY

- (1) Power Point on dissections
- (2) Charts Explanation
- (3) Models
- (4) Preserved Specimens
- (5) Physiology experiments demo