

AP CHEMISTRY

What will we teach your child?







Parinama Academy



AP CHEMISTRY

PARINAMA ACADEMY BELT PROGRESSION

LEVEL 1	LEVEL 2
	
White Belt 1 4 Weeks White Belt 2 4 Weeks	Yellow Belt 1 4 Weeks Yellow Belt 2 4 Weeks
Program Completion Time: 8 Months	
LEVEL 3	LEVEL 4
	
Green Belt 1 4 Weeks Green Belt 2 4 Weeks	Blue Belt 1 4 Weeks Blue Belt 2 4 Weeks

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WHITE BELT 1 (4 WEEKS)

1. Atomic Structure & Properties
2. Spectroscopy & Periodic trends
3. Elemental Composition of Substances & Mixtures
4. Review/Assessment



LEVEL-1

WHITE BELT 2 (4 WEEKS)

1. Chemical bonds, Intramolecular force & energy
2. Structure of metals & alloys
3. Resonance & formal charge
4. Review/Assessment

YELLOW BELT 1 (4 WEEKS)

1. Intermolecular force, properties of solids, liquids & gasses
2. Gas law & kinetic molecular theory
3. Solutions & Mixtures, electromagnetic spectrum.
4. Review/Assessment



LEVEL-2

YELLOW BELT 2 (4 WEEKS)

1. Reactions & net ionic equations
2. Physical & Chemical Reactions
3. Titration & Redox reactions
4. Review/Assessment

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GREEN BELT 1 (5 WEEKS)

1. Reaction rates, Rate law & elementary reactions
2. Collision model, reaction energy profile
3. Reaction mechanisms & catalysis
4. Review/Assessment



LEVEL - 3

GREEN BELT 2 (5 WEEKS)

1. Endothermic & Exothermic process
2. Thermal equilibrium & Calorimetry
3. Enthalpy of reaction & Hess's law
4. Review/Assessment

BLUE BELT 1 (5 WEEKS)

1. Equilibrium Constant & Concentrations
2. Introduction to Le Chatelier's Principle
3. Common-ion effect, pH & solubility
4. Review/Assessment



LEVEL - 4

BLUE BELT 2 (5 WEEKS)

1. Acids & Bases, Strong- Weak acids
2. Acid-Base Titrations & Molecular structure of acids- bases
3. Properties of buffers , buffer capacity & Henderson-Hasselbalch equation
4. Review/Assessment