

Since -1998

APPOLO
STUDY CENTRE

TNPSC EXAMS
21 YEARS OF
EXCELLENCE

Important Lessons
in
General Science

UNIT-I : GENERAL SCIENCE

UNIT-I : GENERAL SCIENCE		
Psychology	Scientific Knowledge and Scientific temper - Power of Reasoning - Rote Learning Vs Conceptual Learning. Source: Appolo Material	
This Topic Covered In Physics, Chemistry, and Biology	Science as a tool to understand the past, Present and future. Source: Appolo Material	
PHYSICS		
Nature of Universe	6 th Term (I)	Unit (1) - Universe & Solar System
	9 th Full Book	Unit (9) - Universe
	11 th Geography	Unit (2) - The Solar System & Earth
General Scientific Laws	6 th to 10 th Std - Scientific Laws Refer: Arihant GK	
Mechanics & Properties of matter	6 th Term (I)	Unit (3) - Matter Around us
	7 th Term(I)	Unit (3) - Matter Around us
	8 th Term (I)	Unit (4) - Matter
	9 th Full Book	Unit (10) - Matter Around us
	11 th Physics Volume (II)	Unit (VII) - Properties of Matter
Force, Motion	6 th Term (I)	Unit (2) - Force and Motion
	7 th Term (I)	Unit (2) - Force and Motion
	8 th Term (I)	Unit (2) - Forces & Pressure
	9 th Full Book	Unit (2) - Motion
		Unit (3) - Fluid
	10 th Full Book	Unit (1) - Laws of Motion
		Unit (2) - Kinematics
	11 th Volume (I)	Unit (3) - Laws of Motion
		Unit (5) - Motion of System of Particles & Rigid Bodies
11 th Volume (II)	Unit (6) - Gravitation	
	Unit (10) - Oscillations	

Electricity & Magnetism	6 th Term (II)	Unit (2) - Electricity
	6 th Term (III)	Unit (1) - Magnetism
	7 th Term (II)	Unit (2) - Electricity
	8 th Term (II)	Unit (2) - Electricity
	9 th Full Book	Unit (4) - Electric Charge & Electric Current
		Unit (5) - Magnetism & Electromagnetism
	10 th Full Book	Unit (4) - Electricity
	11 th Volume (I)	Unit (4) - Work, Energy, Power
	12 th Volume (I)	Unit (1) - Electrostatics
		Unit (2) - Current Electricity
		Unit (3) - Magnetism & Magnetic Effects of Electric Current
Unit (4) - Electromagnetic Induction & Alternating Current		
Unit (5) - Electromagnetic Waves		
Light & Laser	8 th Term (I)	Unit (3) - Light
	9 th Full Book	Unit (6) - Light
	10 th Full Book	Unit (2) - Optics
	11 th Volume (II)	Unit (11) - Waves
Sound	12 th Volume (II)	Unit (6) - Optics
	9 th Full Book	Unit (8) - Sound
	10 th Full Book	Unit (5) - Acoustics
Heat	6 th Term (II)	Unit (1) - Heat
	7 th Term (II)	Unit (1) - Heat and Temperature
	8 th Term (II)	Unit (I) - Heat
	9 th Full Book	Unit (7) - Heat

Nuclear Physics	10 th Full Book	Unit (3) - Thermal Physics
	11 th Volume (II)	Unit (8) - Heat & Thermodynamics
	7 th Term (I)	Unit (4) - Atomic Structure
	8 th Term (II)	Unit (4) - Atomic Structure
	9 th Full Book	Unit (11) - Atomic Structure
	10 th Full Book	Unit (6) - Nuclear Physics
Electronics & Communication	12 th Volume (II)	Unit (7) - Dual Nature of Radiation and Matter
		Unit (8) - Atomic and Nuclear Physics
		Unit (9) - Semiconductor Electronics
	6 th Term (I)	Unit (7) - Computer an Introduction
	7 th Term (I)	Unit (7) - Visual Communication
	8 th Term (I)	Unit (9) - Introduction to The Information Age
	9 th Full Book	Unit (25) - Computer an Introduction
		Unit (26) - Parts of Computer
Unit (27) - Hard Ware and Soft Ware		
12 th Volume (II)	Unit (10) - Communication Systems	
	Unit (11) - Recent Developments in Physics	
CHEMISTRY		
Elements & Compounds APPOLO MATERIAL	9 th Full Book	Unit (12) - Periodic Classification of Elements
	10 th Full Book	Unit (7) - Atoms and Molecules
		Unit (8) - Periodic Classification of Elements
	11 th Volume (I)	Unit (3) - Periodic Classification of Elements

Acids, Bases & Salts	9 th Full Book	Unit (14) - Acids, Bases & salts
	10 th Full Book	Unit (9) - Solutions
Petroleum Products	11 th Automobile Engineering	Unit (3) - Fuels and Their Types
Fertilizers	Refer - Appolo Material	
Pesticides		
Additional Topics	6 th Term (III)	Unit (3) - Chemistry in Daily Life
	9 th Full Book	Unit (13) - Chemical Bonding
		Unit (15) - Carbon and its Compounds
	10 th Full Book	Unit (16) - Applied Chemistry
	10 th Full Book	Unit (11) - Carbon and its compounds
BOTANY		
Main Concepts of Life Science		
The Cell	6 th Term (II)	Unit (5) - The Cell
	7 th Term (II)	Unit (4) - Cell Biology
	10 th Full Book	Unit (16) - Plant and animal Hormones
	11 th Volume (I)	Chapter (6) - Cell – The Unit of Life
		Chapter (7) - Cell Cycle
	Chapter (8) - Bio Molecules	
Plant Physiology	7 th Term (I)	Unit (5) - Reproduction & Modification in Plants
	8 th Term (I)	Unit (8) - Organization of Life
		Unit (18) - Organization of Tissues
	9 th Full Book	Unit (19) - Plant Physiology
	10 th Full Book	Unit (16) - Plant and Animal Hormones
Unit (17) - Reproduction in Plants & Animals		

	12 th Volume (I)	Unit(6) - Asexual & Sexual Reproduction in plants
Classification of Living Organism	6 th Term (I)	Unit (4) – The Living World of Plants
		Unit (5) – Living World of Animals
	7 th Term (II)	Unit (5) – Basis of Classification
	8 th Term (I)	Unit (6) – Microorganisms
		Unit (7) – Plant Kingdom
	9 th Full Book	Unit (17) – Animal Kingdom
	10 th Full Book	Unit (17) - Reproduction in Plants & Animals
	11 th Botany	Chapter (1) - Living World
Chapter (2) -Plant Kingdom		
11 th Zoology	Chapter (1) - Living World	
	Chapter (2) - Kingdom Animalia	
3. Nutrition & Dietics - Respiration - Green Revolution	10 th Full Book	Unit (14) - Transportation in Plants (upto 14.11)
	11 th Botany Volume (II)	Unit (5) – Plant Physiology
		Chapter (11) - Transport in Plants
		Chapter (12) - Mineral Nutrition
		Chapter (13) – Photosynthesis
		Chapter (14) – Respiration
Chapter (15) - Plant Growth and Development		
11 th Economics	Unit (8) - Indian Economy Before and After Independence (8.7 Green Revolution)	

Also Read 12th Botany Unit (X) – Chapter – 9 [Bio Fertilizer (9.5.1), Green Revolution (9.7.7)]

ZOOLOGY		
Physiology Blood & Circulation	6 th Term (II)	Unit (6) - Human Organ System (6.4, 6.5)
	10 th Full Book	Unit (14) - Circulation in Animals (14.12 – 14.18)
	11 th Volume (I)	Unit (5) - Digestion and Absorption
		Unit (6) - Respiration
		Unit (7) - Body Fluid & Circulation
11 th Volume (II)	Unit (8) - Excretion	
Endocrine System	8 th Term (II)	Unit (6) - Reaching the age of Adolescence
	11 th Volume (II)	Chapter (11) - Chemical Coordination & Integration
Reproduction	9 th Full Book	Unit (20) - Organ System in Animals
	10 th Full Book	Unit (13) - Structural Organization of Animals [Read only Reproduction & Circulation].
		Unit (16) - Plant Animal Hormones [16.2 – 16.2.7]
		Unit (17) - Reproduction in Animals (17.7)
	12 th Zoology	Chapter (1) - Reproduction in Organisms
Chapter (2) - Human Reproduction		
Chapter (3) - Reproductive Health		
Genetics	10 th Full Book	Unit (18) - Heredity
		Unit (19) - Origin & Evolution of Life
		Unit (20) - Breeding & Biotechnology
12 th Zoology	Chapter (4) - Principles of Inheritan Variation	
	Chapter (5) - Molecular Genetics	

12 th - Botany	Chapter (6) - Evolution
	Chapter (10) - Applications Of Bio Technology
	Chapter (2) - Classical Genetics
	Chapter (3) - Chromosomal Basis of Inheritance
	Chapter (4) - Principles and Processes of Biotechnology
	Chapter (5) - Plant Tissue Culture

Refer - PHYSIOLOGY – Read Organ Systems Fully in School Books

Health & Hygiene (Human Diseases)	6 th Term (I)	Unit (6) – Health & Hygiene
	7 th Term (I)	Unit (6) – Health & Hygiene
	9 th Full Book	Unit (21) - Nutrition & Health
	10 th Full Book	Unit (21) - Health & Disease
	11 th Zoology Volume (I)	Chapter (5) - Digestion And Absorption - 5.5, 5.7
	12 th Zoology	Chapter 7- Human Health and Diseases Chapter 8 - Immunology Chapter 9 - Microbes in Human Welfare
Miscellaneous	11 th Zoology Volume (II)	Chapter (12) - Basic Medical Instruments and Techniques Chapter (13) - Trends in Economic Zoology
	12 th Botany	Chapter (10) - Economically Useful Plants and Entrepreneurial Botany
Environment & Ecology	6 th Term (II)	Unit (4) - Air
	6 th Term (III)	Unit (2) - Water Unit (4) - Our Environment
	8 th Term (II)	Unit (3) - Air

9 th Full Book	Unit (24) - Environmental Science
10 th Full Book	Unit (22) - Environmental Management
12 th Zoology	Chapter 11- Organisms And Population Chapter 12 - Biodiversity & Conservation Chapter 13 - Environmental Issues
12 th Botany	Chapter (6) - Principles of Ecology Chapter (7) - Ecosystem Chapter (8) - Environmental Issues

ADDITION

UNIT-I : GENERAL SCIENCE

PHYSICS

Nature of Universe	7 th Term (III)	Unit (2) - Universe and Space
	8 th Term (III)	Unit (3) - Universe and Space Science
Electricity & Magnetism	8 th Term (III)	Unit (2) - Magnetism
Light	7 th Term (III)	Unit (1) - Light
Sound	8 th Term (III)	Unit (1) - Sound
Electronics & Communication	7 th Term (III)	Unit (6) - Visual Communication
	8 th Term (III)	Unit (9) - Visual Communication

CHEMISTRY

Elements & Compounds	8 th Term (III)	Unit (4) - Water
Acids, Bases & Salts	8 th Term (III)	Unit (5) - Acids and Bases
Additional topics	7 th Term (III)	Unit (3) - Polymer Chemistry
	8 th Term (III)	Unit (4) - Chemistry in Daily Life Unit (6) - Chemistry in Everyday Life

ENVIRONMENT & ECOLOGY

Environment & Ecology	7 th Term (III)	Unit (5) - Animals in Daily Life Unit (7) - Crop Production and Management
	8 th Term (III)	Unit (8) - Conservation of Plants and Animals