



**STAR INTERNATIONAL
SCHOOL, RANCHI**
SYLLABUS – XII (Sci.) (AY 2024-25)



ENGLISH:

Prescribed Books

1. Flamingo
2. Vistas

Term I

Flamingo	Vistas	Grammar
Prose: 1. Indigo 2. Poets and Pancakes 3. The Interview 4. Going Places Poetry: 1. A Roadside Stand 2. Aunt Jennifer's Tigers	1. The Enemy 2. On the Face of It 3. Memories of Childhood ○ The Cutting of My Long Hair ○ We Too are Human Beings	1. Letter writing -Letters to the editor (giving suggestions or opinion on issues of public interest) -Application for a job 2. Notice writing

Term II

Flamingo	Vistas	Grammar
Prose: 1. The Last Lesson 2. Lost Spring 3. Deep Water 4. The Rattrap Poetry: 1. My Mother at Sixty-Six 2. Keeping Quiet 3. A Thing of Beauty	1. The Third Level 2. The Tiger King 3. Journey to the end of the Earth	1. Formal/Informal Invitation and Reply 2. Article/Report Writing

MATHEMATICS

Prescribed books:

1. Mathematics Part I - Textbook for Class XII, NCERT Publication
2. Mathematics Part II - Textbook for Class XII, NCERT Publication

Term I	Term II
• Relations and Functions • Inverse Trigonometric Functions • Matrices • Determinants • Continuity and Differentiability • Applications of Derivatives • Integrals	• Applications of the Integrals • Differential Equations • Vectors • Three - dimensional Geometry • Linear Programming • Probability



**STAR INTERNATIONAL
SCHOOL, RANCHI**
SYLLABUS – XII (Sci.) (AY 2024-25)



BIOLOGY

Prescribed Books:

1. Biology, Class-XII, Published by NCERT

Term I	Term II
Chapter-2: Sexual Reproduction in Flowering Plants Chapter-3: Human Reproduction Chapter-4: Reproductive Health Chapter-5: Principles of Inheritance and Variation Chapter-6: Molecular Basis of Inheritance Chapter-7: Evolution Chapter-8: Human Health and Diseases	Chapter-10: Microbes in Human Welfare Chapter-11: Biotechnology - Principles and processes Chapter-12: Biotechnology and its Application Chapter-13: Organisms and Populations Chapter-14: Ecosystem Chapter-15: Biodiversity and its Conservation

PHYSICS

Prescribed books:

1. Physics, Class XII, Part -I and II, Published by NCERT.

Term I	Term II
Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance Chapter–3: Current Electricity Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current Chapter–8: Electromagnetic Waves	Chapter–9: Ray Optics and Optical Instruments Chapter–10: Wave Optics Chapter–11: Dual Nature of Radiation and Matter Chapter–12: Atoms Chapter–13: Nuclei Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits

CHEMISTRY

Prescribed books:

1. Chemistry Part -I, Class-XII, Published by NCERT.
2. Chemistry Part -II, Class-XII, Published by NCERT

Term I	Term II
• Unit II: Solutions • Unit III: Electrochemistry • Unit IV: Chemical Kinetics • Unit VIII: d and f Block Elements • Unit IX: Coordination Compounds	• Unit X: Haloalkanes and Haloarenes. • Unit XI: Alcohols, Phenols and Ethers • Unit XII: Aldehydes, Ketones and Carboxylic Acids • Unit XIII: Amines • Unit XIV: Biomolecules



**STAR INTERNATIONAL
SCHOOL, RANCHI**
SYLLABUS – XII (Sci.) (AY 2024-25)



PHYSICAL EDUCATION

Prescribed Books:

1. Health and Physical Education, Class-XII, Published by New Saraswati House

Term I	Term II
Unit I Management of Sporting Events Unit II Children & Women in Sports Unit III Yoga as Preventive measure for Lifestyle Disease Unit IV Physical Education & Sports for CWSN Unit V Sports & Nutrition	Unit VI Test & Measurement in Sports Unit VII Physiology & Injuries in Sports Unit VIII Biomechanics & Sports Unit IX Psychology & Sports Unit X Training in Sports

COMPUTER SCIENCE

Prescribed books:

1. COMPUTER SCIENCE (Class XII) Published by NCERT.

Term I	Term II
• Computational Thinking and Programming – 2 • Computer Networks	• Computer Networks • Database Management