English

- **Comprehension:** Unseen Passage
- **Grammar:** Parts of Speech, Punctuations, Defining & Non-defining Relative Clauses, Modal Verbs, Using Connectors to Show Support & Contrast, Simple, Continuous, Perfect & Perfect Continuous Tenses, and Passive Voice
- **Composition:** Descriptive Paragraph, Story, Summary, Informal Letter & Email & Narrative Writing
- **Communication:** Listening and Speaking

Mathematics

- Sets and its Properties
- Integers and Rational Numbers
- Decimal Numbers
- Exponents and Radicals
- Financial Arithmetic
- Algebraic Expressions (Four operations and simplification)
- Algebraic Identities (Factorization)
- Area, Perimeter, and Circumference
- Lines & Angles
- Information Handling

Science

- The Digestive System and nutrients
- Atoms, elements and their symbols, chemical formulae, valence no., atomic and molecular mass, isotopes, and radioisotopes with their uses
- Transport in Plants, active and passive transport, how gases, food, and water are transported in all parts of plants, Transpiration, its factors, and importance
- Sound waves, types of waves, parts of waves
- Human transport system, structure and function of heart, arteries, veins, capillaries, components of blood, heart diseases, and their cure
- Types of heat transfer and their applications: conduction, convection, radiation
- Refraction, refractive index, critical angle, total internal reflection, optical fibres, dispersion of light by prism, rainbow formation, visible light spectrum, primary and secondary color of light, color filters

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اردو

- **تخلیقی لکھائی:** تفہیم، خطوط نویسی، درخواست، مضمون نویسی، کہانی نویسی

- **قواعد:** الفاظ متضاد، عربی قاعدے سے جمع، مرکب توصیفی، سابقے لاحقے، علامات وقف، نظم کی اقسام، صفت موصوف، مترادف الفاظ، تکرار الفاظ، تشبیہات، فعل اور اقسام فعل، اسم ذات اور اسکی اقسام، فعل ماضی کی اقسام، اسم کی اقسام، صفت ذاتی کے درجے، املا کی اغلاط، گنتی، محاورات / ضرب الامثال

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Note: The recommended books of:

Science: New Oxford Secondary Science **|** **Mathematics:** New Syllabus D Series Mathematics