



**ASIAN INTERNATIONAL SCHOOL
SYLLABUS FOR ENTRANCE EXAM
CLASS XI SCIENCE/COMMERCE**

SUBJECT	TOPICS	SUBTOPICS
ENGLISH	1. UNSEEN	<ol style="list-style-type: none"> 1. COMPREHENSION/POEM 2. PASSAGE- PROSE/POEM
	2. GRAMMAR	<ol style="list-style-type: none"> 1. FUNCTIONAL GRAMMER 2. STRUCTURAL USAGE OF ENGLISH
	3. CREATIVE WRITING / COMPOSITION	<ol style="list-style-type: none"> 1. NARRATION 2. DESCRIPTIVE 3. IMAGINATIVE 4. ARGUMENTATIVE
MATHS	1. QUADRATIC EQUATION	<ol style="list-style-type: none"> 1. SUMS AND PROBLEMS
	2. TRIGNOMETRY	<ol style="list-style-type: none"> 1. COMPLEMENTARY ANGLES 2. IDENTITIES 3. HEIGHTS AND DISTANCES
	3. STATISTICS	<ol style="list-style-type: none"> 1. MEAN 2. MEDIAN 3. MODE 4. CUMMULATIVE FREQUENCY GRAPH
	4. MENSURATION	SURFACE AREA AND VOLUME OF <ol style="list-style-type: none"> 1. CIRCLES 2. CUBES 3. CUBOIDS 4. SPHERE 5. CONE 6. CYLINDER
	5. GEOMETRY	<ol style="list-style-type: none"> 1. TRIANGLES – SIMILARITY, PHYTHAGOROUS THEOREM 2. CIRCLE – AREA, TANGENT
PHYSICS	1. LIGHT	<ol style="list-style-type: none"> 1. REFLECTION THROUGHT PLANE MIRROR 2. REFLECTION THROUGHT SPHERICAL MIRROR 3. REFRACTION THROUGH GLASS SLAB 4. REFRACTION THROUGH PRISM

		<ol style="list-style-type: none"> 5. REFRACTION THROUGH LENS 6. RAY DIAGRAM
	<ol style="list-style-type: none"> 2. LIGHT –NATURAL PHENOMENA 	<ol style="list-style-type: none"> 1. DISPERSION 2. SCATTERING 3. RAINBOW 4. EARLY SUNRISE /DELAYED SUNSET
	<ol style="list-style-type: none"> 3. ENERGY SOURCES 	<ol style="list-style-type: none"> 1. TYPES OF ENERGY 2. ADVANTAGES / DISADVANTAGES 3. GENERATION OF ELECTRICITY
	<ol style="list-style-type: none"> 4. ELECTRICITY 	<ol style="list-style-type: none"> 1. OHMS LAW 2. JOULES LAW OF HEATING 3. POWER 4. COMBINATION OF RESISTORS 5. HOUSEHOLD CONNECTION
	<ol style="list-style-type: none"> 5. MAGNET EFFECT OF CURRENT 	<ol style="list-style-type: none"> 1. OERSTED EXPERIMENT 2. FLEMMINGS RULES 3. SOLENOID 4. ELECTROMAGNET 5. AC GENERATOR 6. DC MOTOR
CHEMISTRY	<ol style="list-style-type: none"> 1. ATOMS AND MOLECULES 	<ol style="list-style-type: none"> 1. FUNDAMENTAL ATOMIC PARTICLES 2. ELECTRONIC CONFIGURATION OF ATOMS 3. VALENCY 4. MOLE CONCEPT
	<ol style="list-style-type: none"> 2. PERIODIC CLASSIFICATIONS OF ELEMENTS 	<ol style="list-style-type: none"> 1. PERIODIC PROPERTIES AND THEIR VARIATION IN GROUPS AND PERIODS 2. MENDELEEV'S PERIODIC TABLE 3. MODERN PERIODIC TABLE 4. METALLIC AND NONMETALLIC PROPERTIES
	<ol style="list-style-type: none"> 3. ACIDS,BASE AND SALTS 	<ol style="list-style-type: none"> 1. GENERAL PROPERTIES OF ACIDS,BASES AND SALTS, INDICATORS 2. IMPORTANCE OF pH , 3. FORMULA AND USES OF SOME ACIDS, BASES AND SALTS.
	<ol style="list-style-type: none"> 4. METALLURGY 	<ol style="list-style-type: none"> 1. CHEMICAL PROPERTIES OF METALS AND NONMETALS 2. REACTIVITY SERIES 3. IONIC AND COVALENT BONDING

	5. CHEMICAL REACTIONS AND EQUATIONS	<ol style="list-style-type: none"> 1. TYPES OF CHEMICAL REACTIONS 2. BALANCING OF CHEMICAL REACTIONS
BIOLOGY	1. BASIC BIOLOGY: CELLS AND TISSUES	<ol style="list-style-type: none"> 1. CELL: UNIT OF LIFE, CELL ORGANELLES AND THEIR FUNCTIONS 2. DIFFERENCE BETWEEN: PROKARYOTIC AND EUKARYOTIC CELLS, ANIMAL AND PLANT CELLS 3. TISSUES-TYPES AND FUNCTIONS OF PLANT AND ANIMAL TISSUES
	2. CONTROL AND COORDINATION	<ol style="list-style-type: none"> 1. ANIMALS- NERVOUS SYSTEM, REFLEX ACTION, HUMAN BRAIN 2. PLANTS- STIMULUS AND RESPONSE, TROPIC MOVEMENTS
	3. REPRODUCTION IN ANIMALS AND PLANTS	<p>ANIMALS-</p> <ol style="list-style-type: none"> 1. TYPES OF REPRODUCTION IN UNICELLULAR ORGANISMS. 2. MALE AND FEMALE REPRODUCTIVE SYSTEMS 3. SEXUAL REPRODUCTION <p>PLANTS-</p> <ol style="list-style-type: none"> 1. STRUCTURE OF FLOWER AND FUNCTIONS OF FLORAL PARTS 2. SEXUAL REPRODUCTION IN PLANTS
	4. LIFE PROCESSES IN PLANTS AND ANIMALS	<ol style="list-style-type: none"> 1. NUTRITION 2. RESPIRATION 3. EXCRETION 4. TRANSPORTATION
	5. HEALTH AND HYGIENE	<ol style="list-style-type: none"> 1. PERSONAL HYGIENE