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

<table>
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<tr>
<th>SUBJECT</th>
<th>TOPICS</th>
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| ENGLISH | 1. UNSEEN | 1. COMPREHENSION/POEM  
2. PASSAGE- PROSE/POEM |
|         | 2. GRAMMAR | 1. FUNCTIONAL GRAMMER  
2. STRUCTURAL USAGE OF ENGLISH |
|         | 3. CREATIVE WRITING / COMPOSITION | 1. NARRATION  
2. DESCRIPTIVE  
3. IMAGINATIVE  
4. ARGUMENTATIVE |
| MATHS   | 1. QUADRATIC EQUATION | 1. SUMS AND PROBLEMS |
|         | 2. TRIGNOMETRY | 1. COMPLEMENTARY ANGLES  
2. IDENTITIES  
3. HEIGHTS AND DISTANCES |
|         | 3. STATISTICS | 1. MEAN  
2. MEDIAN  
3. MODE  
4. CUMMULATIVE FREQUENCY GRAPH |
|         | 4. MENSURATION | SURFACE AREA AND VOLUME OF  
1. CIRCLES  
2. CUBES  
3. CUBOIDS  
4. SPHERE  
5. CONE  
6. CYLINDER |
|         | 5. GEOMETRY | 1. TRIANGLES – SIMILARITY, PHYTHAGOROUS THEOREM  
2. CIRCLE – AREA, TANGENT |
| PHYSICS | 1. LIGHT | 1. REFLECTION THROUGH PLANE MIRROR  
2. REFLECTION THROUGH SPHERICAL MIRROR  
3. REFRACTION THROUGH GLASS SLAB  
4. REFRACTION THROUGH PRISM |
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<tr>
<th>CHEMISTRY</th>
<th>1. ATOMS AND MOLECULES</th>
<th>1. FUNDAMENTAL ATOMIC PARTICLES</th>
<th>2. ELECTRONIC CONFIGURATION OF ATOMS</th>
<th>3. VALENCY</th>
<th>4. MOLE CONCEPT</th>
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<td>2. PERIODIC CLASSIFICATIONS OF ELEMENTS</td>
<td>1. PERIODIC PROPERTIES AND THEIR VARIATION IN GROUPS AND PERIODS</td>
<td>2. MENDELEEV’S PERIODIC TABLE</td>
<td>3. MODERN PERIODIC TABLE</td>
<td>4. METALLIC AND NONMETALLIC PROPERTIES</td>
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<tr>
<td>3. ACIDS, BASE AND SALTS</td>
<td>1. GENERAL PROPERTIES OF ACIDS, BASES AND SALTS, INDICATORS</td>
<td>2. IMPORTANCE OF pH</td>
<td>3. FORMULA AND USES OF SOME ACIDS, BASES AND SALTS</td>
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<tr>
<td>4. METALLURGY</td>
<td>1. CHEMICAL PROPERTIES OF METALS AND NONMETALS</td>
<td>2. REACTIVITY SERIES</td>
<td>3. IONIC AND COVALENT BONDING</td>
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</table>
| 5. CHEMICAL REACTIONS AND EQUATIONS | 1. TYPES OF CHEMICAL REACTIONS  
2. BALANCING OF CHEMICAL REACTIONS |
|-------------------------------------|--------------------------------------------------------------------------------|
| BIOLOGY 1. BASIC BIOLOGY: CELLS AND TISSUES | 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 | 1. ANIMALS- NERVOUS SYSTEM, REFLEX ACTION, HUMAN BRAIN  
2. PLANTS- STIMULUS AND RESPONSE, TROPIC MOVEMENTS |
| 3. REPRODUCTION IN ANIMALS AND PLANTS | ANIMALS- 1. TYPES OF REPRODUCTION IN UNICELLULAR ORGANISMS.  
2. MALE AND FEMALE REPRODUCTIVE SYSTEMS  
3. SEXUAL REPRODUCTION PLANTS- 1. STRUCTURE OF FLOWER AND FUNCTIONS OF FLORAL PARTS  
2. SEXUAL REPRODUCTION IN PLANTS |
| 4. LIFE PROCESSES IN PLANTS AND ANIMALS | 1. NUTRITION  
2. RESPIRATION  
3. EXCRETION  
4. TRANSPORTATION |
| 5. HEALTH AND HYGIENE | 1. PERSONAL HYGIENE |