

## Jeddah Grammar International School Grade 8 - Entrance Exam Outline

**Subject:** English (The syllabus is made in accordance with Cambridge Curriculum Framework)

Topic Outline	
<p><b>Reading: fiction and non-fiction texts</b></p> <ul style="list-style-type: none"> <li>- Unseen comprehension</li> <li>- Understanding author's purpose and theme in a text</li> <li>- the effect of word choices and punctuation in a text</li> <li>- Figures of speech-alliteration, onomatopoeia, personification, rhetorical question, pun, simile and metaphor</li> </ul> <p><b>Spelling</b></p> <ul style="list-style-type: none"> <li>- prefixes, suffixes, word families</li> </ul>	<p><b>Writing:</b></p> <ul style="list-style-type: none"> <li>- Continuing a short story</li> <li>- Argumentative essay</li> <li>- Report writing</li> </ul> <p><b>Grammar and Punctuation</b></p> <ul style="list-style-type: none"> <li>- Direct and indirect speech</li> <li>- Simple, compound, complex and COMPOUND-COMPLEX sentences</li> <li>- Use of punctuation like comma, colon, semi-colon, dash, ellipses and hyphens</li> </ul>

**Subject:** Mathematics

Topic Outline	
<p><b>Number system</b></p> <ul style="list-style-type: none"> <li>▪ Multiples, Factors and Primes</li> <li>▪ Squares, cubes, roots and indices.</li> <li>▪ Rules of arithmetic.</li> <li>▪ Adding, subtracting, multiplying and dividing integers, decimals and fractions.</li> <li>▪ Comparing and ordering whole numbers, decimals and fractions.</li> <li>▪ Finding Fractions and percentages of quantities.</li> <li>▪ Converting between fractions, decimals and percentages.</li> <li>▪ Ratio and proportion</li> <li>▪ Calculating and using percentages</li> <li>▪ Percentage increase and decrease</li> <li>▪ Understand term-to-term rules and generate sequences from numerical and spatial patterns (including fractions).</li> </ul>	<p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>• Units of length, area, volume and capacity</li> <li>• Solving geometric problems using properties of angles of parallel and intersecting lines and of triangles and special quadrilaterals</li> <li>• Recognizing congruent shapes</li> <li>• Know the properties of triangles and quadrilaterals</li> <li>• Area of triangles, squares, rectangles, parallelogram, trapezia and circle</li> <li>• Area and perimeter of compound shapes</li> <li>• Transformation</li> </ul> <p><b>Handling Data</b></p> <ul style="list-style-type: none"> <li>• Frequency diagrams, bar charts, pie charts, line graphs and stem and leaf diagrams</li> <li>• Interpreting real-life graphs, travel graphs.</li> <li>• Averages and ranges.</li> <li>• Probability.</li> </ul>

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<p><b>Algebra</b></p> <ul style="list-style-type: none"> <li>▪ Deriving and using formulae</li> <li>▪ Collecting like terms</li> <li>▪ Simplifying and expanding algebraic expressions.</li> <li>• Factorizing algebraic expressions</li> <li>▪ Constructing expressions.</li> <li>• Solving linear equations.</li> </ul>	
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**Subject:** Science

Topic Outline	
<ul style="list-style-type: none"> <li>● Recognise the positions, and know the functions of the major organs of flowering plants, e.g. root, stem, leaf</li> <li>● Know the role of the skeleton and joints and the principle of antagonistic muscles</li> <li>● Recognise the positions and know the functions of the major organ systems of the human body.</li> <li>● Identify the seven characteristics of living things and relate these to a wide range of organisms in the local and wider environment</li> <li>● Know about the role of micro-organisms in the breakdown of organic matter, food production and disease, including the work of Louis Pasteur</li> <li>● Compare the structure of plant and animal cells</li> <li>● Describe methods of separation as filtration, crystallisation, simple distillation .</li> </ul>	<ul style="list-style-type: none"> <li>● Know functions of specialised cells like muscle cells, epithelial cells, nerve cells etc).</li> <li>● Describe how organisms are adapted to their habitat.</li> <li>● Discuss positive and negative influence of humans on the environment, e.g. the effect on food chains, pollution and ozone depletion</li> <li>● Define species</li> <li>● Particle theory of matter to explain the properties of solids, liquids and gases, including changes of state</li> <li>● Distinguish between metals and non metal and their physical properties</li> <li>● Distinguish between acids and bases in terms of pH paper .Use of common indicators(litmus paper , Universal indicator)</li> <li>● Internal structure of the earth as core, mantle and crust</li> <li>● Describe the effects of forces on motion, including friction and air resistance</li> <li>● The effect of gravity on objects</li> <li>● Relative position and movement of the planets and the sun in the solar system</li> </ul>