

Jeddah Grammar International School Grade 9 - Entrance Exam Outline

Subject: English as a Second Language

Topic Outline	
<p>Writing:</p> <ul style="list-style-type: none"> - Describing people's character and appearance - Book and film reviews - Writing a friendly email <p>Grammar:</p> <ul style="list-style-type: none"> - Present Simple and continuous - Order of adjectives - Active and passive voice - Gerund and infinitive - relative clauses - adverbs 	<p>Reading: Unseen comprehension</p> <p>Vocabulary and Spelling</p> <ul style="list-style-type: none"> - Homophones, doubling consonants, - Adjectives and collocations - Suffixes -able or -ible? - Suffixes -ment and -al? - Prefixes and compound nouns

Subject: Mathematics

Topic Outline	
<ul style="list-style-type: none"> ▪ Fractions and Indices ▪ Expressions and Formulae ▪ Shapes and Mathematical Drawings ▪ Numbers ▪ Measures ▪ Planning, Collecting and Processing Data ▪ Rounding, Multiplying and Dividing ▪ Equations and Inequalities ▪ Geometry 	<ul style="list-style-type: none"> ▪ Mental Strategies ▪ Compound Measures ▪ Presenting Data and Interpreting Results ▪ Ratio and Proportion ▪ Sequences, Functions and Graphs, ▪ Transformations ▪ Fractions, Decimals and Percentages ▪ Area, Perimeter and Volume ▪ Probability

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Subject: Science

Topic Outline	
<ul style="list-style-type: none"> The pathway of water and mineral salts from the roots to the leaves in flowering plants, including absorption in root hair cells, transport through xylem and transpiration from the surface of leaves. Reproduction in flowering plants. Variation within a species and relate this to genetic differences between individuals. Explain the movement of tectonic plates in terms of convection currents. Concept of speed, distance-time graphs. Calculate density = mass / volume Calculate Pressure = Force/ Area Use density to explain why objects float or sink in water. Draw and interpret waveforms, and recognise the link between loudness and amplitude, pitch and frequency. Identify examples of displacement reactions and predict products (limited to reactions involving calcium, magnesium, zinc, iron, copper, gold and silver salts) based on the reactivity series of metals. Identify difference between accuracy and precision, and their importance when thinking and working scientifically. Know that energy is conserved, meaning it cannot be created or destroyed. Describe methods of separation as filtration, crystallisation, simple distillation, fractional distillation and paper chromatography. 	<ul style="list-style-type: none"> Basic introduction of excretory, respiratory and circulatory system and their functions. How plants need carbon dioxide, water and light for photosynthesis in order to make biomass and oxygen, and the role of chloroplasts. <p>(Word equation for photosynthesis, including raw materials and necessary conditions.</p> <ul style="list-style-type: none"> Describe a covalent bond as a bond made when a pair of electrons is shared by two atoms (limited to single bonds). Describe an ion as an atom which has gained at least one electron to be negatively charged or lost at least one electron to be positively charged. Describe an ionic bond as an attraction between a positively charged ion and a negatively charged ion Know about the effects of smoking Discuss how foetal development is affected by the health of the mother, including the effect of diet, smoking and drugs. Understand that in chemical reactions mass and energy are conserved. Examples and definition of endothermic and exothermic reactions . Determine electronic configuration of elements and their outermost shell Know the seven periods and eighteen groups in the periodic table and general physical properties of alkali metals, halogens and noble gases.