Pakistan International School Jeddah – English Section



Academic Year 2024-25

Syllabus Outline - For Admission in Y8

(Minimum Age 13, Maximum Age 13.11 Years on 1 st September, 2024)

Subject	Syllabus
English	Comprehension: Fiction, Non-Fiction. Writing Skills: Story writing (descriptive and narrative), article writing, letter writing. Grammar: Making complex sentences, using different tenses, using phrasal verbs and use of figurative language.
Mathematics	 Multiples, Factors and Primes Squares, cubes, roots and indices. Rules of arithmetic. Adding, subtracting, multiplying and dividing integers, decimals and fractions. Comparing and ordering whole numbers, decimals and fractions. Finding Fractions and percentages of quantities. Converting between fractions, decimals and percentages. Ratio and proportion Calculating and using percentages Percentage increase and decrease Understand term-to-term rules and generate sequences from numerical and spatial patterns (including fractions).
	 Algebra Deriving and using formulae Collecting like terms Simplifying and expanding algebraic expressions. Factorizing algebraic expressions Constructing expressions. Solving linear equations. Inequalities. Geometry Units of length, area, volume and capacity Solving geometric problems using properties of angles of parallel and intersecting lines and of triangles and special quadrilaterals Recognizing congruent shapes Know the properties of triangles and quadrilaterals Area of triangles, squares, rectangles, parallelogram, trapezia and circle Area and perimeter of compound shapes Transformation

	Handling Data
	Statistics and Probability
	• Frequency diagrams, bar charts, pie charts, line graphs and stem and leaf diagrams
	Data Collection and Sampling.
	• Interpreting real-life graphs, travel graphs, time series graph
	Plotting and interpreting graphs
	Averages and ranges.
	Experimental and theoretical Probability.Bearings
	Midpoint of a line segment.
	Transformations: Translating, reflecting, rotating and enlarging shapes
	✓ UNIT 1: Respiration
	1.1: The Human respiratory System
CC	1.2: Gas Exchange
ũ	1.3: Breathing
ii	1.4: Respiration
Science	1.5: Blood
	✓ UNIT 2: Properties of Material
	2.1: Dissolving
	2.2: Solutions & Solubility
	2.3: Planning a Solubility Investigation
	2.4: Paper Chromatography
	✓ UNIT 3: Forces and Energy
	3.1: Forces & Motion
	3.2: Speed
	3.3: Describing Movements
	3.4: Turning Forces
	3.5: Pressure between Solids
	3.6: Pressure in Liquids & Gases
	3.7: Particles on the Move
	Kinetic Particle Theory
	Mass & Gravity
	✓ UNIT 4: ECOSYSTEMS
	4.1: The Sonoran Desert
	4.2: Different Ecosystems
	4.3 Intruders in an Ecosystem
	4.4: Bioaccumulation
	✓ UNIT 5: Materials & Cycles on Earth
	5.1: The Structure of the Atom
	5.2: Purity
	5.3: Weather & Climate
	5.4: Climate & Ice Ages

	5.5: Atmosphere & Climate
	Periodic table (Names, symbols of first 20 elements,
	metals and non-metals as the two main groupings of elements)
	Difference between elements, compounds and mixtures
	✓ UNIT 6: LIGHT
	6.1: Reflection
	6.2: Refraction
	6.3: Making Rainbows
	6.4: Colors of Light
	6.5: Galaxies
	6.6: Rocks in Space
	✓ UNIT 7: DIET & GROWTH
	7.1: Nutrients
	7.2: A balanced Diet
	7.3: Growth, Development & Health
	7.4: Moving the Body
	✓ UNIT 8: Chemical Reactions
	8.1: Exothermic Reactions
	8.2: Endothermic Reactions
	8.3: Reactions of Metals with Oxygen
	8.4: Reactions of Metals with Water
	8.5: Reactions of Metals with Dilute Acid
	Acids & Alkalis, Indicators and the pH scale
	✓ UNIT 9: MAGNETISM
	9.1: Magnetic Fields
	9.2: The Earth as a Giant Magnet
	9.3 Electromagnets
	9.4: Investigating Electromagnets
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