



# Pak Shamaa School-Doha, Qatar

(Cambridge Wing)

## Syllabus For Admission – Year 7

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### Science (Marks:30)

- The Human Body
  - The Circulatory System
  - The Respiratory System
- Food Chain and Food Webs
- Electricity-Different Circuits and Diagrams
- The Solar System

### Mathematics (Marks:40)

- Addition, Subtraction, Multiplication and Division of Simple and Decimal Number (Show Working)
- The Number System (Place Value, Rounding Decimal Number)
- Change Fraction to Mixed Number or Percentage
- Find Perimeter and Area of a Square and a Rectangle
- Common Multiples and Factors

### English (Marks:30)

- Parts of Speech
  - Prefix and Suffix
  - Use of Punctuation
  - Comprehension of a Passage
  - Creative Writing
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# Pak Shamaa School-Doha, Qatar

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## Syllabus For Admission – Year 8

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### Science (Marks:30)

- Cells (plant cells, animal cells)
- Materials and their Structure (solids, liquids & gases, changes of state,)
- Forces and Energy (gravity, weight & mass, Energy, changes in energy, where does energy go?)
- Grouping and Identifying Organisms (characteristics of living organisms, what is a species)
- Properties of materials (acids & alkalis, Indicators & the pH scale)

### Mathematics (Marks:40)

- Addition, Multiplication and Division of Mixed Numbers (Show Working)
- Rounding (Nearest 10,100,1000)
- Sequences (Term to Term Rule)
- Expressions, Formulae and Equation
- Angles (Types, Finding Missing angle)

### English (Marks:30)

- Parts of Speech
  - Prefix and Suffix
  - Use of Punctuation
  - Comprehension of a Passage
  - Creative Writing
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# Pak Shamaa School-Doha, Qatar

(Cambridge Wing)

## Syllabus For Admission – Year 9

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### Science (Marks:30)

- The Human Respiratory System (Blood, Breathing)
- Light (Reflection, Refraction, Making rainbows, Colors of light)
- The Structure of Atom (Elements, Subatomic particles)
- Diet and Growth (Nutrients, Carbohydrates, proteins, fats, vitamins, minerals, iron, Balanced diet)

### Mathematics (Marks:40)

- Expressions, formulae and equation (Expanding Brackets, Factorizing, Constructing and solving equations)
- Angles and Constructions (Parallel lines, The exterior angles of the triangles)
- Fractions (Subtracting mixed numbers, multiplying integers by a mixed number, Dividing an integer by a fraction)
- Sequences and Functions (Finding rules for sequences)
- Percentages (Percentages increase and decrease)
- Ratio and Proportion (Simplifying ratios, Sharing a ratio)
- Probability (Calculating probabilities)

### English (Marks:30)

- Grammar (Parts of Speech, Correction of Tenses, Punctuation, Vocabulary)
  - Comprehension-Multiple Matching
  - Informal email writing
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# Pak Shamaa School-Doha, Qatar

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## Syllabus For Admission – Year 10

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### Science (Marks:30)

- Physical Quantities, Volume of Regular and Irregular Shapes, Speed, Velocity, and Acceleration Motion Graphs, Laws of Newton, Mass and Weight, Momentum, Pressure and Density
- Photosynthesis and respiration, Cell and cellular organelles
- Atomic structure and the periodic table
- Chemical bonding (ionic, covalent, metallic), States of matter and changes of state
- Acids, bases, and pH scale

### Mathematics (Marks:40)

- Algebraic expressions (Expanding Brackets, Laws of indices (for alphabets), Problems solving the change of subjects and algebraic equations, Solving simultaneous linear equations)
- Angle properties of polygons (Sum of interior and exterior angles of a polygon, Finding number of sides of a polygon)
- Numbers (Rounding numbers (decimal places, nearest whole numbers, significant figures, Combined operations, Percentages (marked price, discount, cost price, selling price etc.)
- Sequences and Functions (Finding nth term of linear sequence
- Ratio and Proportion (Problems of ratios and equivalence, Direct and inverse proportion)

### English (Marks:30)

- Grammar (Parts of Speech, Correction of Tenses, Punctuation, Vocabulary)
  - Comprehension-Multiple Matching
  - Informal email writing
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