

## Entrance exam objectives

**Subject: Mathematics**

**Year group: 9**

No.	objectives:
1	<b>Number: Fractions, multiplication and division of fractions, fractions and decimals, Ratio and proportion</b>
2	<b>Algebra: Constructing expressions, factorize, change the subject of a formula, Equations, Expanding brackets, simple factorizing, further expansion, factorizing by grouping,</b>
3	<b>Measure: Circumference and area of a circle, the area of parallelograms and trapeziums Geometry: angles and transformations</b>

Topics and units covered/ Studying material/Practical skills & any other information
<p><b><u>Numbers</u></b> <b><u>Powers and roots</u></b> Squares, square roots Indices – laws of indices, zero index, negative indices Powers of 10 – Multiplying and dividing whole numbers and decimals by powers of 10</p> <p><b><u>Fractions</u></b> Writing a fraction in its simplest form Addition and subtraction of fractions Multiplication of fractions Division of fractions</p> <p><b><u>Ratio and proportion:</u></b> Ratio Direct proportion</p> <p><b><u>Sequences</u></b> Sequences – term-to-term rule and nth term</p> <p><b><u>Algebra:</u></b> <b><u>Equations and inequalities</u></b> Index notation and algebra Constructing expressions Expansion and factorization Factorisation by grouping Change the subject of a formula Further expansion</p> <p><b><u>Geometry:</u></b> Angle properties and transformations</p> <p><b><u>Measure:</u></b> <b><u>Measures and the circle:</u></b> Circumference of a circle Area of a circle The area of parallelograms and trapeziums</p>

## Year group: 9 English

No.	objectives:
1	To respond to unseen texts, showing understanding and ability to work out the meaning of unfamiliar words/ analyze how effect is created.
2	To complete a narrative / descriptive piece of writing, based on a reading text, making effective use of detail and is technically accurate (spelling, grammar, punctuation, sentence structure and organization).

## Arabic Objectives for year 7-10

### الصف التاسع:

ماتمت دراسته بمادة اللغة العربية في الصف الثامن حسب كتاب اللغة العربية الخاص بوزارة التربية والتعليم في قطر