

This is to inform you that this is the description for the **Foundation Tier** “the Pearson Edexcel International GCSE in Mathematics.

9th grade.

For the First assessment the following concepts are included:

Numbers and the number system:

Fractions

- understand and use equivalent fractions, simplifying a fraction by cancelling common factors
- understand and use mixed numbers and vulgar fractions
- Identify common denominators
- D.order fractions and calculate a given fraction of a given quantity
- express a given number as a fraction of another number
- use common denominators to add and subtract fractions and mixed numbers
- convert a fraction to a decimal or a percentage
- understand and use unit fractions as multiplicative inverses
- multiply and divide fractions and mixed numbers

Percentages

- understand that ‘percentage’ means ‘number of parts per 100’
- express a given number as a percentage of another number
- express a percentage as a fraction and as a decimal
- understand the multiplicative nature of percentages as operators
- solve simple percentage problems, including percentage increase and decrease
- use reverse percentages
- use compound interest and depreciation

Ratio and proportion

- use ratio notation, including reduction to its simplest form and its various links to fraction notation
- Divide a quantity in a given ratio or ratios.
- use the process of proportionality to evaluate unknown quantities.
- Calculate an unknown quantity from quantities that vary in direct proportion
- solve word problems about ratio and proportion

Standard form

- calculate with and interpret numbers in the form $a \times 10^n$ where n is an integer and $1 \leq a < 10$

Degree of accuracy

- A. round integers to a given power of 10
- B. round to a given number of significant figures or decimal places

Integers

- E. Use the four rules of addition, subtraction, multiplication and division
- F. use the brackets and the hierarchy of operations.
- G. use the terms odd, even, prime numbers, factors and multiples
- H. Identify prime factors, common factors and common multiples.

These topics are found in “Pearson Edexcel International GCSE (9-1) Mathematics A Student book 1 as following:

Number 1 unit 1

Page numbers 3 to 18

- working with fractions
- order of operations
- significant figures and decimal places

Number 2 unit 2

Page numbers 97 to 112

- standard form
- percentages
- percentage increase and decrease

Number 3 unit 3

page numbers 175 to 184

- prime factors
- HCF and LCM
- Ratio

Teacher: Shatha Al_Anabtawi