Mathematics I - Algebra

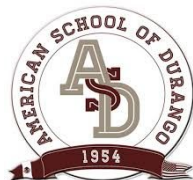|	
Department: Mathematics	**Key of the matter: 701/708**
Requirements: Have passed mathematics III of Middle School Mathematics	**Year:** First
Weekly load: 5	**Date of elaboration** April 2017

Topics

Unit 1
1.1   Definition of algebra.
1.2   Character of algebra and its difference with arithmetic.
1.3   Algebra notation.
1.4   Positive and negative quantities.
1.5   Absolute and relative value.
1.6   Arithmetic and algebraic quantities.
1.7   Algebraic nomenclature.
1.8   Classification of algebraic expressions.
1.9   Similar terms and reduction of similar terms.
1.10   Addition and subtraction of algebraic expressions.
1.11   Signs of grouping.
1.12   Multiplication and division of algebraic expressions.
1.13   Notable products and notable ratios.
1.14   Factorial decomposition.

Unit 2
2.1   Complete equations of first degree with an unknown.
2.2   Problems about equations in the first degree with an unknown.
2.3   Maximum common divisor.
2.4   Minimum common multiple.
2.5   Algebraic fractions Reduction of fractions.
2.6   Operations with algebraic fractions.
2.7   Fractional numerical equations of the first degree with an unknown quantity.
2.8   Problems about first degree fractional equations.
2.9   Inequalities.
2.10   Intermediate equations.

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2.11   Simultaneous equations of first degree with two unknowns.

2.12   Simultaneous first-degree equations with three unknowns.