

Subject: Mathematics

Year: 9

Week: 1

Topic: Binary numbers

Conversion of base 10 to binary number

Conversion of binary numbers to base 10

Conversion of binary numbers to other bases

Conversion from base 10 to other bases

Week: 2

Topic: Basic operation in binary system

Addition

Subtraction

Multiplication

Division

Week: 3

Topic: Proportion

Direct proportion

Graphical representation of direct proportion

Inverse proportion

Graphical representation of inverse proportion

Reciprocals

Week: 4

Topic: Rational and non-rational numbers

Rational numbers

Non-rational numbers

Square roots

Week: 5

Topic: Plane figure

Triangle, rectangles and squares

Properties of plane shapes

Week: 6

Topic: Factorization of algebraic expression

HCF of algebraic equations

Factorization by taking out common factors

Simplifying calculations by factorization