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| SUBJECT: MATHEMATICS | | | **SYLLABUS FOR THE ACADEMIC YEAR 2021-2022** | | |
| OPTION: | | |
| GRADE: 9 | | |
| Month | Date | No.of days | Topics | Sub Topics | Lead |
|
| April | 11-15 | 5 |  |  | RANGEENA |
| 18-22 | 5 | Number System | types of numbers, Introduction |
| 25-29 | 5 | Number System | Rational numbers and irrational numbers |
| May | 2-6 | 5 | Number System | Real numbers and its decimal expansion, operations on real numbers |
| 9-13 | 2 | Number System | Exponential laws for real numbers |
| 16-20 | 5 | Polynomials | polynomials in one variables, zero of the polynomial |
| 23-27 | 5 | Polynomials | remainder theorem, factor theorem, factorisation, algebraic identities |
| 30-31 | 2 | Polynomials | Algebraic Identities |
| June | 1-3 | 3 | Coordinate Geometry | Carition system,plotting points |
| 6-10 | 5 | Coordinate Geometry | Plotting point |
| 13- 17 | 5 | Heron's formula | Area of triangle by heron's formula and its appliction |
| 20-24 | 5 | Heron's formula/Linear equation in two variabless | Application of Heron;s formula,solutions of linear equation graphically |
| 27-30 | 4 | Linear Equation in two variable | eqution of lines parallel to x axis and y axis |
| August | 29-31 | 3 | Lines and Angles | Introduction , pairs of angles, Parallel lines and transversal |
| September | 1-2 | 2 | Lines and Angles | parallel lines and transversal |
| 5-9 | 5 | Lines and Angles | Angle sum propert of triangles |
| 12-16 | 5 | Triangles | Criteria for congruence of triangles, |
| 19- 23 | 5 | **Revision** | |
| 26- 30 | 5 | **First Semester Examination** | |
| October | 3-7 | 5 | **First Semester Examination** | |
| 10 14 | 5 | **Triangles** | **Congruence criteria,Properties of triangles,** |
| 17 -21 | 4 | **Triangles** | **Inequality property** |
| 24-28 | 5 | **Quadrilateral** | **Types of quadrilateral, angle sum property of quadrilateral** |
| November | 1- 4 | 4 | Quadrilateral | properties of parallelogram, Criteria for a quadrilateral to be parallelogram, mid point theorem |
| 7-11 | 5 | Areas of parallelogram | Figures on the same base and beteween the same parallel ,Prallelogram on the same base and beteween the same parallel |
| 14- 18 | 5 | Areas of parallelogram | Parallelogram on the same base and beteween the same parallel, triangles on the same base and beteween the same parallel |
| 21-25 | 5 | Circles | Angles and chord, perpendicular from the chord to a circle,circle through 3 points |
| 28-30 | 3 | Circles | Equal chords and distance from the centre, Angle subtendedd by an arc of a circle, cyclic quadrilateral |
| December | 5-9 | 5 | Circles | Some construction of triangles |
| January | 2-6 | 5 | Constructions | Basic construction, Contructions of triangles |
| 9-13 | 5 | Construction/ Surface area and volume | Construction of Triangles,Surface area of cuboid and cube |
| 16-20 | 5 | Srface Area and Volume | Volume of cobe& cuboid,Surface area of cylinder and cone |
| 23-27 | 4 | Srface Area and Volume | Volume of cylinder and cone, surface area & volume of sphere |
| 30-31 | 2 | Statistics | collection & presentation of data |
| February | 1-3 | 3 | Statistics | Measures of central tendency, Graphical representation |
| 6-10 | 5 | Statistics/Probability | Graphical representation, Probability of an event |
| 13-17 | 4 | probability | Probability an experimental approach |
| 20-24 | 5 | Introductions to Euclid's geometry | Axioms and postulates |
| 27-28 | 2 | **Revision** | |
| March | 1-3 | 3 | **Revision** | |
| 6-10 | 5 | **Annual Examination** | |
| 13-17 | 5 | **Annual Examination** | |