



GRAIN CHAMBER PUBLIC SCHOOL

Affiliated to C.B.S.E., New Delhi, up to 10+2 level

NEW MANDI, MUZAFFARNAGAR-251 001 (U.P.)

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SYLLABUS

FOR THE SESSION

2018-2019

Class - IX

| Subject | I Periodic Test (20) | Half Yearly Exam. (80) | II Periodic Test (20) | Annual Exam. (80) |
|--|---|--|---|---|
| English : Language & Literature | Reading Section - Unseen Passage Grammar Section - Tenses Writing Section - Diary Entry, Article writing Literature - Prose (Beehive) - 1, 2 Poetry (Beehive) - 1, 2 Supplementary Reader (Moments) - 1, 2 Subject Enrichment- ASL Language Lab. Module - 3 Sessions - 1 to 4 | Section 'A' Reading Section Unseen Passage Section 'B' (Writing) - Diary Entry, Article writing Letters - Formal, Informal, Speech writing, Story writing Section 'C' (Grammar) - Tenses, Modals, Passive Voice, Sub-Verb-Concord, Reported Speech, Clauses, Noun clause, Adverb clause, Determiners, Prepositions, Conjunctions, Pronoun Grammar Book - L. - 1 to 4, 10 to 16, 19, 20, 22, 23 Section 'D' - Literature - Prose (Beehive) - 1 to 6 Poetry (Beehive) - 1 to 6 Supplementary Reader (Moments) - 1 to 6 Language Lab. Module - 3 Sessions - 5 to 8 Subject Enrichment ASL | Reading Section - Unseen Passage Writing Section - Formal & Informal letters, Story writing Grammar Section - Indirect narration Determiners Literature Prose (Beehive) - 7, 8 Poetry (Beehive) - 7, 8 Supplementary Reader (Moments) - 7, 8 Subject Enrichment ASL Language Lab. Module - 6 Sessions - 1 to 13 | Section 'A' Reading - Unseen Passage Section 'B' (Writing) - Same as half yearly syllabus Section 'C' (Grammar) - Same as half yearly syllabus. Grammar Section - L. 1 to 27 Section 'D' - Literature - Prose (Beehive) - 1 to 11 Poetry (Beehive) - 1 to 10 Supplementary Reader (Moments) - 1 to 10 Language Lab. Module - 6 Sessions-1 to 26 (All sessions) Subject Enrichment ASL |

(IX-1/8)

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| Hindi Course A | पाठ्य पुस्तक- क्षितिज - भाग-1 गद्य खंड - पाठ-1 काव्य खंड - पाठ- 11 कृतिका भाग-1 पाठ-2 व्याकरण- शब्द निर्माण, उपसर्ग, प्रत्यय, समास Enrichment - ASL | पाठ्य पुस्तक- क्षितिज - भाग-1 गद्य खंड - पाठ-1, 2, 4, 5 काव्य खंड - पाठ-10, 11, 12, 14 कृतिका भाग-1 पाठ-2, 3 व्याकरण- शब्द निर्माण- उपसर्ग, प्रत्यय, समास, अर्थ की दृष्टि से वाक्य-भेद, अलंकार, संवाद लेखन, अपठित गद्यांश, अपठित पद्यांश, निबंध लेखन, पत्र लेखन Enrichment - ASL | पाठ्य पुस्तक- क्षितिज - भाग-1 गद्य खंड - पाठ-5 काव्य खंड-पाठ- 14 कृतिका भाग-1 पाठ-3 व्याकरण- अलंकार, अर्थ की दृष्टि से वाक्य-भेद Enrichment - ASL | पाठ्य पुस्तक- क्षितिज - भाग-1 गद्य खंड - पाठ-1, 2, 4, 5, 6, 7 काव्य खंड-पाठ- 10, 11, 12, 14, 15, 16, 17 कृतिका भाग-1 पाठ-2, 3, 4 व्याकरण- शब्द-निर्माण- उपसर्ग, प्रत्यय व समास, अर्थ की दृष्टि से वाक्य-भेद, अलंकार, संवाद लेखन, निबंध लेखन, पत्र लेखन, अपठित गद्यांश, अपठित काव्यांश Enrichment - ASL |
| Mathematics | 1. Number System 2. Polynomials 3. Co-ordinate Geometry Enrichment Part- N.C.E.R.T. Activities and Maths Lab.-Manual activities based on Chap. - 1, 2, 3 Assignment based on Chapters mentioned above. | 4. Linear Equation in two variables 5. Introduction to Euclidian Geometry 6. Lines and Angles 12. Heron's Formula 7. Triangles Enrichment Part- N.C.E.R.T. Activities and Maths Lab.- Manual activities based on above chapters. Assignments on above chapters (Chaps.- 1, 2, 3, will also include in half yearly) | 10. Circles 11. Constructions Enrichment Part NCERT Activities Maths Lab Manual Activities Assignment on above chapters. | 8. Quadrilaterals 9. Area of Parallelograms 13. Surface Area and Volumes 14. Statistics 15. Probability and whole previous course chap. - 1 to 15 Enrichment Part- NCERT Activities and Maths lab Manual Activities based on above chapters. |

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| Biology | Theory - Ch. 5 : The Fundamental Unit of Life Ch. 6 : Tissues upto (6.2.2) Enrichment Activities : Quiz, Assignment, Activities etc. Practical / Activity - (for Subject Enrichment) (i) To prepare a temporary stained mount of onion Peel/ human cheek cells. (ii) To determine the mass percentage of water imbibed by raisins. | Theory - Ch. 6 : Tissues Ch. 13 - Why do we fall ill ? (Including the syllabus of I Pd. Test) Enrichment Activities : Quiz, Assignment, Activities etc. Practical - (iii) To identify different types of plant tissues from prepared slides - T. S. of Parenchyma, Collenchyma, Sclerenchyma. (iv) To identify & study straited, Non-striated & Nerve cells from slides. | Theory - Ch. 14 : Natural Resources Ch. 15 : Improvement in Food resources Enrichment Activities : Quiz, Assignment, Activities etc Practical - (v) To study the life cycle of mosquito (through Preserved specimens) | Theory - Ch. 7 : Diversity in Living organisms Enrichment Activities : Quiz, Assignment, Activities etc. Practical - (vi) To study characteristics of various plant specimens - Spirogyra, Agaricus, Mossfern (vii) To study the characteristics of animal specimens - Earthworm, cockroach (male & female), Bony fish & pigeon. (Including the syllabus of I Pd, II Pd. & Half Yearly Exams.) |
| Chemistry | Ch. 1 : Matter in our Surroundings 1. To determine the melting point of ice and boiling point of water. Enrichment Activities : Quiz, Assignment, Activities etc. | Ch. 2 : Is matter around us Pure ? 2. To prepare (a) true solution of common salt, sugar and alum (b) a suspension of soil, chalk powder and fine sand in water. (c) a colloidal of starch in water and egg albumin in water and distinguish | Ch. 3 : Atoms and Molecules Practicals - 6. To verify the law of conservation of mass in a chemical reaction. Enrichment Activities : Quiz, Assignment, Activities etc. | Ch. 4 : Structure of the Atom Enrichment Activities : Quiz, Assignment, Activities etc. (Including the syllabus of I Pd, Half Yearly, II Pd. Exams.) |

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| | | between these on the basis of (i) transparency (ii) Filtration criterion (iii) Stability 3. To prepare (a) mixture (b) a compound using iron filings and sulphur powder & distinguish between these on the basis of (i) Appearance <i>i.e.</i> homogeneity and heterogeneity. (ii) Behaviour towards a magnet (iii) Behaviour towards carbondisulphide as a solvent. (iv) Effect of heat 4. To carryout the following reactions and classify them as Physical or Chemical changes. (a) Iron with copper sulphate solution. (b) Burning of magnesium in air. (c) Zinc with dilute sulphuric acid. (d) Sodium sulphate with barium chloride in the form of their solution in water. | | |

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| | | 5. To separate the components of a mixture of sand, common salt & ammonium chloride (or camphor) by sublimation. Enrichment Activities - Quiz, Assignment, Activities etc. (Including the syllabus of I Pd Test) | | |
| Physics | Ch. - 8 : Motion Ch. - 9 : Force and Laws of Motion Practical - 1. To establish relationship between weight of a rectangular wooden block lying on a horizontal table and the minimum force required to just move it using a spring balance. | Ch. - 10 : Gravitation Practical - 2 : To determine the density of solid (denser than water) by using a spring balance and a measuring cylinder. 3 : To establish the relation between the loss in weight of a solid when fully immersed in (a) tap water (b) strongly salty water, with the weight of water displaced by it by taking atleast two different solids. Enrichment activities : Quiz, Assignment, Activities etc. (Including the syllabus of I Pd. Test) | Ch. - 11 : Work and Energy Practical - 4 : To observe and compare the pressure exerted by a solid iron cuboid on lime sand/ wheat flour while resting on its three different focus and to calculate the pressure exerted in the three different cases. | Ch. - 12 : Sound Practical - 5. To verify laws of reflection of sound. 6. To determine the velocity of a pulse propagated through a stretched string /slinky. Enrichment activities : Quiz, Assignment, Activities etc. (Including the syllabus of I Pd, Half yearly and II Pd Exams.) |

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| S. Sc. | Geography L. - 1 Eco. L. - 1 Map work & Lab Manual based on Chapters | History L. - 1, 2 Geo. L. - 1 to 3 Civics L. - 2, 3, 4 Eco. L. - 1, 2 Map work & Lab Manual based on Chapters | History L. - 3 Civics L. - 5 Map work & Lab Manual based on Chapters | History L. - 1, 2, 3, 5 Geography L. - 1 to 6 Civics L. - 2 to 6 Eco. L. - 1 to 4 Map work & Lab Manual based on Chapters |
| Work Experience (Atal Tinkering Lab) | Unit 1 : Kit Introduction 1. Kit Introduction 2. Basic Design 3. Problem Solving Loop 4. Introduction to Programming 5. Fork Lift | Unit 2 : Torque Specifications and Concept 1. Leavers that lift. 2. Mechanical advantage of gears 3. Effect of gears on Torque Unit 3 : Lifting Mechanism 1. Pulley as a simple machine 2. Mechanical advantage of pulley 3. Lifter using Worm Gear Including I Periodic Assessment | Unit 4 : Lines and Linear Equations 1. Variables and Data Types 2. Math Block and Arithmetic Expression 3. Data Handling and Graphs Unit 5 : Touch Sensor Technology 1. Working Principle of touch 2. Programming touch sensor 3. Applications of touch Sensor | Unit 6 : Advanced Mathematics 1. Co-ordinate Geometry 2. Circles 3. Trigonometry Unit 7 : Motor 1. Motor 2. Current Generation 3. Photoresistor Including II Periodic Assesment |
| Computer | SA - I | | SA - 2 | |
| | Ch. 1 : Convergence & Computing Technology Ch. 2 : Computer System Ch. 3 : Input and Output Devices Ch. 4 : Basics of Computer System Ch. 5 : Communication Technology Ch. 6 : Operating System Ch. 7 : Microsoft Word 2010-I | | Ch. 8 : Microsoft word 2010-II Ch. 9 : Microsoft word 2010-III Ch. 10 : Microsoft Power Point 2010-I Ch. 11 : Microsoft Power Point 2010-II Ch. 12 : Microsoft Excel 2010-I Ch. 13 : Microsoft Excel 2010-II Ch. 14 : Societal Imnacts of IT | |

Art Edu.

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| April : Covering File, Introduction & Index Page | May : Book Mark |
| July : Knowledge of Colours | August : Office Envelope /File Folder |
| September : Folk art with Black Pen or Coloured Pen | October : Texture |
| November : Body Parts Drawing (Human Figure) | December : Still Life Drawing (Shading) |
| January : Picture on Save wild Life/Save fuel | February : Nature (Any flower, leaf, fruit, vegetable) |

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| Health Edu. | Chess, Caroom, Badminton Aerobics Ex. (Benefits) Suryanamas Kar (Benefits) | Volley Ball, Basket Ball (Technique, Rules Fundamental Skills) Yoga Aerobic exercises (Benefits) Padmasan Tadaasan | Cricket Football (Technique, History & Rules) Yoga Vajrasana Trikonasana | Athletics A. Races B. Throws C. Jumps Bhujangasana, Paschimottasana and Recaptulation of all activities |

SCHEDULE FOR PERIODIC TEST

Class: IX Maximum Marks: 20 Weightage: 50% Duration: 1Hr.

| Subjects | I Periodic Test | II Periodic Test |
|----------|-----------------|------------------|
| Maths | 16/07/2018 | 26/11/2018 |
| S. Sc. | 23/07/2018 | 01/12/2018 |
| English | 30/07/2018 | 03/12/2018 |
| Science | 10/08/2018 | 10/12/2018 |
| Hindi | 13/08/2018 | 17/12/2018 |

Note: Date of course completion is one week before the Exam/Test held in the subject.

Grading Scale for Scholastic Areas (Class IX)

| MARKS RANGE | GRADE |
|-------------|------------|
| 91-100 | A1 |
| 81 - 90 | A2 |
| 71 - 80 | B1 |
| 61- 70 | B2 |
| 51 - 60 | C1 |
| 41 - 50 | C2 |
| 33 - 40 | D |
| 32 & Below | E (Failed) |

Pass & Promotion Criteria for Class IX

1. A student will have to obtain at least D Grade (33% marks in each subject separate out of 80 marks and 20 marks) finally to get clear PASS in each subject.
2. It is compulsory for all the students to appear in all the tests/examinations conducted by the school. No exemption shall be allowed even on medical ground.
3. The promotion of child to the next class will depend upon his/her cumulative performance during the entire academic session.