



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 - X

Subject	I Periodic Test	II Periodic Test	Half Yearly Exam.	III Periodic Test	After III Periodic Test
English Commu- nicative	Reading Section - Unseen Passage Writing Section - Formal letter (Inquiry) Grammar Section - Tenses, Pronoun Literature - Fiction - 1 Poem - 1 Novel - L. : 1, 2 M.C.B. - Unit - 1 W. B. - Unit - 1 Lang. Lab. - Module - 7 Session - 1 to 6 Subject Enrichment- ASL	Reading Section - Unseen Passage Writing Section - Formal letter (Complain) Grammar Section - Indirect speech, Modals Literature - Fiction - 3 Poem - 2 Novel - L. : 4, 5 M.C.B. - Unit - 3 W. B. - Unit - 3 Lang. Lab. - Module - 7 Session - 7 to 12 Subject Enrichment- ASL	Reading Section - Unseen Passage (Gr. book) Writing Section - Formal letters & story writing Grammar Section - Tenses, Modals, Passive voice, Reported speech, Sub-verb Concord, Clauses-Noun, Adverb of condition and time, Relative clause, Determiners, Prepositions, Pronoun, Conjunctions Gr. Book - Complete book M.C.B. - Unit 1 to 6 Work book - Unit 1 to 14 Literature - Fiction - 1 to 4 Poem - 1 to 3 Drama - 1 Long Reading Text (Novel) - 'The Story of my life' by Helen Keller L. - 1 to 20 Lang. Lab. - Module - 7 Session - 13 to 22 Sub. Enrichment - ASL	Reading Section - Unseen Passage Writing Section - Formal letter (Placing order) Grammar Section - Active & Passive voice Literature - Fiction - 5 Poem - 4 Novel - L. 21 to 23 Sub. enrichment - ASL	Reading Section - Unseen Passage Writing Section - Formal letters & Story Writing Grammar Section - Same as half yearly syllabus. Grammar book - Complete book M.C. B. - Unit 1 to 6 Work Book - Unit 1 to 14 Literature - Fiction - 1 to 6 Poem - 1 to 5 Drama - 1, 2 Long Reading Text (Novel) - Complete novel Lab. Manual - Module-7 (All sessions) Sub. Enrichment - ASL

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Hindi	<p>क्षितिज – भाग-2 गद्य खंड – पाठ-10 काव्य खंड – पाठ-1 कृतिका – भाग-2 पाठ-1</p> <p>व्याकरण- रचना के आधार पर वाक्य-भेद। Enrichment - ASL</p>	<p>क्षितिज – भाग-2 गद्य खंड – पाठ-13 काव्य खंड – पाठ-6 कृतिका-भाग-2 पाठ-2</p> <p>व्याकरण- पद-परिचय Enrichment - ASL</p>	<p>पाठ्य पुस्तक- क्षितिज – भाग-2 गद्य खंड – पाठ-10, 11, 12, 13, 14 काव्य खंड – पाठ-1, 5, 6, 7, 8, 9 कृतिका भाग-2 पाठ-1, 2</p> <p>व्याकरण- रचना के आधार पर वाक्य-भेद, पद-परिचय, रस, वाच्य परिवर्तन, पत्र-लेखन, निबंध-लेखन, विज्ञापन, अपठित गद्यांश, अपठित काव्यांश Enrichment - ASL</p>	<p>पाठ्य पुस्तक- क्षितिज – भाग-2 गद्य खंड – पाठ-14 काव्य खंड – पाठ-8 कृतिका भाग-2 पाठ-3</p> <p>व्याकरण- वाच्य परिवर्तन Enrichment - ASL</p>	<p>पाठ्य पुस्तक- क्षितिज – भाग-2 गद्य खंड – पाठ-10, 11, 12, 13, 14, 16 काव्य खंड – पाठ-1, 2, 5, 6, 7, 8, 9 कृतिका भाग-2 पाठ-1, 2, 3</p> <p>व्याकरण- रचना के आधार पर वाक्य-भेद, पद-परिचय, वाच्य-परिवर्तन, रस, विज्ञापन, पत्र-लेखन, निबंध-लेखन, अपठित गद्यांश, अपठित काव्यांश। Enrichment - ASL</p>

Mathematics	<p>1. Real Numbers 2. Polynomials 3. Linear Equation in two variable 4. Quadratic Equation Enrichment Part- N.C.E.R.T Activities and Lab-Manual activities based on chapters. Assignments based on above chapters.</p>	<p>8. Introduction to trigonometry 9 : Some application of Trigonometry 11 : Constructions Enrichment Part- NCERT and Lab-Manual activities based on chapters. Assignments based on above chapters.</p>	<p>6 : Triangles 7 : Co-ordinate Geometry 12. Area related to circle 14. Statistics Enrichment Part- N.C.E.R.T and Lab-Manual activities based on chapters. Assignment based on above chapters. (Whole previous course will also include in Half Yearly Exam.)</p>	<p>10 : Circle 5 : Arithmetic Progression 15 : Probability Enrichment Part- N.C.E.R.T and Lab-Manual activities. Assignment based on above chapters.</p>	<p>13 : Surface areas and Volumes and chapters 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15 Enrichment Part- NCERT and Lab-Manual activities based on chapters Assignment based on above chapters.</p>
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Biology	<p>Ch. 6 : Life Processes (upto digestive system in man) Lab Activity/Practicals : (i) To prepare a temporary mount of leaf peel to show stomata. (ii) To show experimentally that sunlight / chlorophyll is necessary for photosynthesis (Starch test). Assignments, Quiz & Activities.</p>	<p>Ch. 6 : Life Processes (after digestive system in man) Ch. 7 : Control & co-ordination : Phototropism, Geotropism Hydrotropism in plants, Nervous system & Hormonal control. Lab. Activity/Practicals: (iii) To show experimentally that CO₂ is given out during respiration. (iv) Experimental set up to demonstrate phototropism & geotropism in plants. Assignments, Quiz & other Enrichment Activities.</p>	<p>Ch. 8 : How do organisms reproduce ? Ch. 9 : Heredity and Evolution (Including Ch. 6 & 7) Lab. Activity/Practicals : (v) To study binary fission in Amoeba, budding in yeast & Hydra by prepared slides. (vi) To study homology with the help of preserved specimens of plants/animals & Charts. Assignments, Quiz & other Enrichment Activities.</p>	<p>Ch. 15 : Our Environment Ch. 16 : Management of Natural Resources. Lab. Activity/Practicals : To study the different parts of a dicot seed & embryo. Assignments, Quiz & other Enrichment Activities</p>	<p>Whole Theory Syllabus & Whole Practical Syllabus as prescribed by CBSE Revision Tests</p>
Chemistry	<p>Ch. 1 : Chemical Reactions and Equations. Experiment - 1. To perform and observe the</p>	<p>Ch. 2 : Acid, Bases and Salts Experiments - 2. To find the pH of the following samples by using</p>	<p>Ch. 3 : Metal and Non-Metals (Including Ch. - 1 and Ch. - 2) Experiments - 5. (a) To observe the action of Zn, Fe, Cu, Al metals on the following salt solutions.</p>	<p>Ch. 4 : Carbon and its compounds Experiments - 6. To study the following properties of acetic acid</p>	<p>Ch. 5 : Periodic Classification of Elements (Including Ch. - 1, 2, 3, and 4)</p>

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	<p>following reactions and classify them into :</p> <p>(i) Combination Reaction</p> <p>(ii) Decomposition Reaction</p> <p>(iii) Displacement Reaction</p> <p>(iv) Double Displacement Reaction.</p> <p>2. (i) Action of water on quick lime.</p> <p>(ii) Action of heat on ferrous sulphate crystal.</p> <p>(iii) Iron nails kept in copper sulphate solution.</p> <p>(iv) Reaction between sodium sulphate & barium chloride solution.</p> <p>Enrichment Activities - Quiz, Assignments, Activities etc.</p>	<p>pH paper or universal indicator</p> <p>(i) Dilute hydrochloric acid (HCl)</p> <p>(ii) Dilute sodium hydroxide solution (NaOH)</p> <p>(iii) Dilute ethanoic acid solution (CH₃COOH)</p> <p>(iv) Lemon juice</p> <p>(v) Water</p> <p>(vi) Dilute sodium bicarbonate solution (NaHCO₃)</p> <p>3. To study the properties of acids (HCl) by their reaction with</p> <p>(i) Litmus solution (blue/red)</p> <p>(ii) Zinc metal (Zn)</p> <p>(iii) Solid sodium carbonate (Na₂CO₃)</p> <p>4. To study the property of bases (NaOH) by their reaction with</p> <p>(i) Litmus solution (blue/red)</p> <p>(ii) Zinc metal (Zn)</p>	<p>(i) ZnSO₄</p> <p>(ii) FeSO₄</p> <p>(iii) CuSO₄</p> <p>(iv) Al₂(SO₄)₃</p> <p>6. Arrange Zn, Fe, Cu and Al metals in the decreasing order of reactivity based on the above result (Including Pd Test - I and Pd Test-II)</p> <p>Enrichment Activities - Quiz, Assignments, Activities etc.</p>	<p>(ethanoic acid)</p> <p>(i) odour</p> <p>(ii) Effect of litmus paper</p> <p>(iii) Solubility in Water</p> <p>(iv) Reaction with Sodium bicarbonate</p> <p>7. To study saponification reaction for preparation of soap.</p> <p>8. To study the comparative cleaning capacity of a sample of soap in soft and hard water.</p> <p>Enrichment Activities : Quiz, Assignment and Activities etc.</p>	

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		<p>(iii) Solid sodium carbonate (Na₂CO₃)</p> <p>Enrichment Activities - Quiz, Assignments, Activities etc.</p>			
Physics	<p>Ch. - 12 : Electricity</p> <p>Exp. 1 : To study the dependences of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plot a graph between V and I.</p> <p>Enrichment activities : Quiz, Assignment and Activities etc.</p>	<p>Ch. 13 : Magnetic Effects of Electric Current</p> <p>Exp. 1 : To determine the equivalent resistance of two resistors when connected in series.</p> <p>Exp. 2 : To determine equivalent resistance of two resistors when connected in parallel.</p> <p>Enrichment activities : Quiz, Assignment, Activities etc.</p>	<p>Ch. 14 : Sources of energy.</p> <p>Ch. - 12, 13</p> <p>Exp. 1 : (a) To determine the focal length of a concave mirror by obtaining the image of a distant object.</p> <p>(b) To determine the focal length of a convex lens by obtaining the image of a distant object.</p> <p>(Including the exp. of I Pd & II Pd Test.)</p> <p>Enrichment activities : Quiz, Assignment, Activities etc.</p>	<p>Ch. 10 : Light Reflection and Refraction</p> <p>Exp. 1 : To trace the path of ray of light passing through a glass prism.</p> <p>Enrichment activities : Quiz, Assignment and Activities etc.</p>	<p>Ch. 11 : Human eye and colourful world</p> <p>Ch. - 10, 12, 13, 14</p> <p>Exp. 1 : To draw the images of an object formed by a convex lens when placed at various positions.</p> <p>(Including the exp. of I Pd, II Pd. III Pd & Half yearly Exam.)</p> <p>Enrichment activities : Quiz, Assignment and Activities etc.</p>
S.Sc.	<p>Geography L. - 1</p> <p>Civics L. - 1</p> <p>Map work & Lab Manual based on Chapters</p>	<p>History L. - 1</p> <p>Economics L. - 1</p> <p>Map work & Lab Manual based on Chapters</p>	<p>History L. - 1, 3, 5, 7</p> <p>Geography L. - 1, 3, 4, 5</p> <p>Civics L. - 1, 2, 3, 4, 6</p> <p>Economics L. - 1, 2, 3</p> <p>Map work & Lab Manual based on Chapters</p>	<p>Geography L. - 6</p> <p>Economics L. - 4</p> <p>Map work & Lab Manual based on Chapters.</p>	<p>History L. - 1, 3, 5, 7</p> <p>Geography L. - 1, 3, 4, 5, 6, 7</p> <p>Civics L. - 1, 2, 3, 4, 6, 7, 8</p> <p>Economics L. - 1 to 5</p> <p>Map work & Lab Manual based on Chapters</p>

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Work Experience (Atal Tinkering Lab)	Unit 1 : Kit Introduction 1. Kit Introduction 2. Basic Design Consideration in robotics 3. Problem Solving LOOP 4. Introduction to Programming 5. Grabber Robot	Including I Periodic Assessment Unit 2 : Motion and Momentum 1. Gears 2. Momentum 3. Simple Harmonic Motion Unit 3 : Sensing the World around us 1. Advanced line following robots 2. Line Follower with obstacle avoidance 3. Automatic Path Finding Robot	Unit 4 : Logic Operation 1. Variables, Operator and Expressions 2. Conditional Statements 3. Logical Operators in Programming Unit 5 - Data Logging 1. Introduction to Data Logging 2. Data Access and Graphs 3. Application of Data Logging	Including II Periodic Assessment Unit 6 : Electronics and Instruments 1. Electronics Measuring Techniques 2. Voltmeter 3. Ammeter Unit 7 : Logic Gates 1. Introduction to Logic gates and Truth Table 2. Basic Logic Gates 3. Universal Logic Gates
H. Edu.	Chess, Carrom Badminton Aerobics exercises (Benefits) Suryanamaskar (Benefits)	Volley Ball Basket Ball (Technique, Rules Fundamental skills) Yoga Aerobics 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
Computer	Half yearly Exam. Syllabus		Annual Exam. Syllabus	
	1 : Internet 3 : Introduction to Databases 5. Query in MS Access	2 : Internet Services 4 : Working with tables	6 : Understanding HTML 8 : Links, Anchors, and tables in HTML 9: XML	7 : Using list and images 10. Societal Impacts of IT
Art Edu.	April – Covering file, Introduction & Index page. July – Knowledge of Colours (Pri., Sec., Cool, warm) September – Folk art with coloured Pen. November – Body parts drawing (shading) January – Picture on save wild life/save fuel		May – Book Mark August – A office file cover October – Office Envelop December – Still life study (shading) February – Picture with different texture (coloured)	

EXAMINATION A

Exam/Test	Tentative Date	Max. Marks
I Periodic Test	3rd Week of May	20
II Periodic Test	4th Week of July	20
Half Yearly	3rd Week of September	X-80, XII-100
III Periodic Test	1st Week of November	20
Revision Exams	In the month of December, 2018	
Pre-Board Exams	In the Month of January, 2019	

SCHEDULE FOR PERIODIC TEST

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

Test / Subject	I Periodic Test	II Periodic Test	III Periodic Test
Maths	14/05/2018	30/07/2018	03/11/2018
S. Sc.	19/05/2018	13/08/2018	05/11/2018
English	21/05/2018	20/08/2018	12/11/2018
Science	26/05/2018	27/08/2018	26/11/2018
Hindi	28/05/2018	01/09/2018	30/11/2018

Grading Scale for Scholastic Areas (Class X)

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)