

ST. THOMAS SCHOOL, DHURWA, RANCHI-4

SYLLABUS IN DETAIL

(Syllabus divided for terms and months)

CLASS: IX
SUBJECT: CHEMISTRY

NAME OF THE BOOK: CONCISE CHEMISTRY ICSE PART-1 CLASS-IX 20-1
TOTAL NO. OF PERIODS IN EACH TERM:

| <u>TERM/MONTH/WEEK</u> | <u>NO. OF PERIOD IN A WEEK</u> | <u>CHAPTER NO.</u> | <u>NAME OF THE CHAPTER</u> | <u>TOPIC</u> |
|------------------------|--------------------------------|--------------------|--|---|
| FIRST TERM | | | | |
| APRIL | | | | |
| IST WEEK | | | | |
| 08-04-21 TO 09-04-21 | 1 | CH-1 | THE LANGUAGE OF CHEMISTRY | 1.8,1.11 HOW TO CALCULATE VALENCY, RELATIVE MOLECULAR MASS |
| 2ND WEEK | | | | |
| 12.04.21 TO 16.04.21 | 2 | CH-1 | THE LANGUAGE OF CHEMISTRY | 1.12 PERCENTAGE COMPOSITION |
| 3RD WEEK | | | | |
| 19.04.21 TO 23.04.21 | 2 | CH-1 | THE LANGUAGE OF CHEMISTRY | 1.13 EMPIRICAL FORMULA + DISCUSSION OF EXERCISE QUESTIONS |
| 4TH WEEK | | | | |
| 26.04.21 TO 30.04.21 | 2 | CH-7 | THE STUDY OF GAS LAWS | 7.1 TO 7.4 INTRODUCTION, BEHAVIOUR & CHARACTERISTIC OF GASES, MOLECULAR MOTION, THE GAS LAWS |
| MAY | | | | |
| 5TH WEEK | | | | |
| 03.05.21 TO 07.05.21 | 2 | CH-7 | THE STUDY OF GAS LAWS | 7.5 P & V RELATIONSHIP IN GASES & INTEXT QUESTIONS |
| 6TH WEEK | | | | |
| 10.05.21 TO 13.05.21 | 2 | CH-7 | THE STUDY OF GAS LAWS | 7.6 T-V RELATIONSHIP IN GASES & INTEXT QUESTIONS |
| JUNE | | | | |
| 7TH WEEK | | | | |
| 14.06.21 TO 18.06.21 | 2 | CH-7 | THE STUDY OF GAS LAWS | 7.7 TO 7.10 ABSOLUTE ZERO, CHANGE OF CENTIGRADE SCALE TO KELVIN TEMPERATURE & VICE-VERSA, THE GAS EQUATION & INTEXT QUESTIONS |
| 8TH WEEK | | | | |
| 21.06.21 TO 25.06.21 | 2 | CH-7 | THE STUDY OF GAS LAWS | 7.11 TO 7.12 STP AND THE EFFECT OF MOISTURE ON PRESSURE + EXERCISE QUESTIONS |
| JULY | | | | |
| 28.06.21 TO 02.07.21 | 2 | CH-1,2,7 | THE LANGUAGE OF CHEMISTRY, THE STUDY OF GAS LAWS, CHEMICAL CHANGES AND REACTIONS | REVISION |
| | | | | |
| SECOND TERM | | | | |
| JULY | | | | |
| IST WEEK | | | | |
| 21.07.21 TO 23.07.21 | 2 | CH-3 | WATER | 3.1 TO 3.4 PHYSICAL PROPERTIES OF WATER, UNIVERSAL SOLVENT, SOLUTIONS |
| 2ND WEEK | | | | |
| 26.07.21 TO 30.07.21 | 3 | CH-3 | WATER | 3.5 TO 3.10 SATURATED SOLUTION, |

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| | | | | CONCENTRATION, SOLUBILITY, CRYSTALS, HYDRATED SALTS |
| AUGUST | | | | |
| 3RD WEEK | | | | |
| 02.08.21 TO 06.08.21 | 3 | CH-3 | WATER | 3.11 TO 3.13 DRYING AND DEHYDRATING AGENTS, SOFT AND HARD WATER, HARDNESS |
| 4TH WEEK | | | | |
| 09.08.21 TO 13.08.21 | 3 | CH-4 | ATOMIC STRUCTURE & CHEMICAL BONDING | 4.1 TO 4.6 ATOM & ELEMENT AND DISCOVERY OF CA ELECTRON, PROTON, NUCLEUS, BOHR'S ATOMIC MODEL, |
| 5TH WEEK | | | | |
| 16.08.21 TO 20.08.21 | 3 | CH-4 | ATOMIC STRUCTURE & CHEMICAL BONDING | 4.7 TO 4.13 DISCOVERY OF NEUTRONS, ATOMIC NO, BOHR-BURY SCHEME, VALENCE ELECTRONS, CHEMICAL REACTIVITY, ISOTOPES |
| 6TH WEEK | | | | |
| 23.08.21 TO 27.08.21 | 3 | CH-4 | ATOMIC STRUCTURE & CHEMICAL BONDING | 4.14 ELECTROVALENT BOND+INTEXT QUESTIONS |
| SEPTEMBER | | | | |
| 7TH WEEK | | | | |
| 01.09.21 T 03.09.21 | 2 | CH-4 | ATOMIC STRUCTURE & CHEMICAL BONDING | 4.15 COVALENT BOND + EXERCISE QUESTIONS |
| 8TH WEEK | | | | |
| 06.09.21 TO 10.09.21 | 3 | CH-6 | STUDY OF FIRST ELEMENT- HYDROGEN | 6.1 T 6.4 POSITION OF HYDROGEN, SIMILARITY BETWEEN HYDROGEN AND ALKALI METALS, SIMILARITY BETWEEN HYDROGEN AND HALOGENS, DISCOVERY OF HYDROGEN |
| 9TH WEEK | | | | |
| 13.09.21 TO 16.09.21 | 3 | CH-6 | STUDY OF FIRST ELEMENT- HYDROGEN | 6.5 TO 6.7 OCURRENCE, PREPARATION OF HYDROGEN, APPLICATION OF ACTIVITY SERIES IN THE PREPARATION OF HYDROGEN+EXERCISE QUESTIONS |
| 10TH WEEK | | | | |
| 20.09.21 T 24.09.21 | 3 | CH-6 | STUDY OF FIRST ELEMENT- HYDROGEN | 6.8 TO 6.10 LAB PREPARATION OF HYDROGEN, MANUFACTURE OF HYDROGEN, PROPERTIES OF HYDROGEN |
| 11TH WEEK | | | | |
| 27.09.21 TO 01.10.21 | 3 | CH-6 | STUDY OF FIRST ELEMENT- HYDROGEN | 6.11 TO 6.12 USES OF HYDROGEN, OXIDATION AND REDUCTION+EXERCISE QUESTIONS |
| OCTOBER | | | | |
| 12TH WEEK | | | | |
| 04.10.21 TO 08.10.21 | 3 | CH-3,4,6 | WATER, HYDROGEN, ATOMIC STRUCTURE & CHEMICAL BONDING | REVISION |
| 13TH WEEK | | | | |
| 18.10.21 | 1 | CH-3,4,6 | WATER, HYDROGEN, ATOMIC STRUCTURE & CHEMICAL BONDING | REVISION |
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| THIRD TERM | | | | |
| NOVEMBER | | | | |
| 1ST WEEK | | | | |
| 08.11.21 T 12.11.21 | 3 | CH-8 | ATMOSPHERIC POLLUTION | 8.1 TO 8.3 INTRODUCTION, AIR POLLUTION, ACID RAIN |
| 2ND WEEK | | | | |

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| 16.11.21 TO 18.11.21 | 2 | CH-8 | ATMOSPHERIC POLLUTION | 8.4 TO 8.5 GLOBAL WARMING, OZONE + EXERCISE QUESTIONS |
| 3RD WEEK | | | | |
| 22.11.21 TO 26.11.21 | 3 | CH-5 | THE PERIODIC TABLE | 5.1 TO 5.3 REASONS FOR CLASSIFICATION, DOBEREINER'S TRIAD, NEWLAND'S LAW OF OCTAVES |
| 4TH WEEK | | | | |
| 29.11.21 TO 30.11.21 | 1 | CH-5 | THE PERIODIC TABLE | 5.4 TO 5.6 MENDELEEV'S PERIODIC TABLE, ATOMIC NO. AS BASIS FOR MODERN PERIODIC LAW, MODERN PERIODIC TABLE+EXERCISE QUESTIONS |
| DECEMBER | | | | |
| 5TH WEEK | | | | |
| 06.12.21 TO 10.12.21 | 3 | CH-5 | THE PERIODIC TABLE | 5.7 TO 5.10 TYPES OF ELEMENTS, MERITS AND DEMERITS OF MODERN PERIODIC TABLE, GENERAL TRENDS IN THE MODERN PERIODIC TABLE |
| 6TH WEEK | | | | |
| 13.12.21 TO 17.12.21 | 3 | CH-5 | THE PERIODIC TABLE | 5.11 T 5.12 STUDY OF SPECIFIC GROUPS, USES OF MODERN PERIODIC TABLE+EXERCISE QUESTIONS |
| 7TH WEEK | | | | |
| 20.12.21 TO 22.12.21 | 2 | CH-1 (10TH BOOK) | THE PERIODIC TABLE | 1.5.1 TO 1.5.2 ATOMIC NUMBER & MASS NO. + IN TEXT QUESTIONS |
| JANUARY | | | | |
| 8TH WEEK | | | | |
| 03.01.22 TO 07.02.22 | 3 | CH-1 | THE PERIODIC TABLE | 1.5.4 TO 1.5. 5PERIODIC PROPERTIES- ATOMIC SIZE, IONISATION POTENTIAL, ELECTRON AFFINITY+ RELATED INTEXT QUESTIONS |
| 9TH WEEK | | | | |
| 10.01.22 TO 13.01.22 | 3 | CH-1 | THE PERIODIC TABLE | 1.6. ATOMIC NUMBER, ATOMIC MASS + EXERCISE QUESTIONS |
| 10TH WEEK | | | | |
| 17.01.22 TO 21.01.22 | 3 | CH-2 | CHEMICAL BONDING | 2.1 TO 2.2 IONIC BOND, SOME EXAMPLES OF IONIC COMPOUND FORMATION- ELECTRON DOT STRUCTURE. |
| 11TH WEEK | | | | |
| 24.01.22 TO 28.01.22 | 3 | CH-2 | CHEMICAL BONDING | 2.3 TO 2.4 COVALENT BOND, POLAR & NON -POLAR COVALENT COMPOUND FORMATION- ELECTRON DOT STRUCTURE+EXERCISE QUESTIONS |
| FEBRUARY | | | | |
| 12TH WEEK | | | | |
| 30.01.22 TO 04.02.22 | 3 | CH-2 | CHEMICAL BONDING | 2.5 TO 2.6.4 COORDINATE COVALENT BOND, FORMATION OF AMMONIUM AND HYDRONIUM ION, SELF IONISATION OF WATER+ EXERCISE QUESTIONS |
| 13TH WEEK | | | | |
| 07.02.22 TO 08.02.22 | 2 | CH-5,8,1&2 (10TH BOOK) | ATMOSPHERIC POLLUTION, THE PERIODIC TABLE [9TH & 10TH BOOK], CHEMICAL BONDING | REVISION |