## Bhartiya Vidya Mandir Senior Secondary School

## Sector-39, Chandigarh Road, Ludhiana <br> SYLLABUS OF CLASS VIII

| BOOK: Text book For class VIII NCERT |  | SUBJECT - MATHEMATICS |  |  | SESSION - 2024-2025 |
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| Month | Unit/Chapter/Topic | Learning Objective | Resources/Art-integarted pedagogy tools used/ E-Resources |  | , Outcomes/ <br> Skills learnt by students |
| APRIL | Chapter 1 : Rational Numbers | To improve the skills that how to use four basic operations of rational numbers in day to day life. | Activity related to there are infinite rational numbers between two rational numbers, figure puzzle. | $\begin{aligned} & \text { https://epathshala.nic.in/QR/? } \\ & \text { id=0852CH01 } \end{aligned}$ | Define of rational numbers and it's standard form. Also properties of rational numbers on four basic operations using patterns. |
|  | Chapter 2:Linear equations in one variable | To solve equations in one variable algebraically. Also how to express real world phenomena algebraically using variable and constants | game based learning with some linear equations. | $\begin{aligned} & \text { https://epathshala.nic.in/QR/? } \\ & \text { id=0852CH02 } \end{aligned}$ | Knowledge of solution of linear equations in one variable. Application of linear equations to solve real life problems. |
|  | Chapter 10:Exponents and Powers | Discovering the rule for solving exponents and writing of large numbers in exponent form. | use of large numbers/Small numbers to express them in scientific notation. | $\begin{aligned} & \text { https://epathshala.nic.in/QR/? } \\ & \text { id=0852CH12 } \end{aligned}$ | Application of laws of exponents in simplifying expressions. Expressing the given numbers in standard form. |
| MAY | Chapter 5: Squares and square roots | Application of concept of squares and square roots in real life problems. | learning of square table and verification of properties of squares. | $\begin{aligned} & \text { https://epathshala.nic.in/QR/? } \\ & \text { id=0852CH06 } \end{aligned}$ | Finding squares and Square roots of numbers using different methods. Identification of perfect squares. properties of square roots. Practical application of square and square roots. |
| JUNE | SUMMER VACATION |  |  |  |  |


| JULY | Chapter 6: Cubes and Cube roots | Knowledge of concept of cube and cube root in real life situations. | Hardy-Ramanujan numbers, learning of cube table, cube number pattern. | $\begin{aligned} & \text { http://epathshala.nic.in/QR/? } \\ & \mathrm{id=0852CH07} \end{aligned}$ | Knowledge of perfect cubes and cube roots with properties. Practical applications of cubes and cube roots. |
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|  | Chapter 4: Data Handling | Understanding of Organisation and presentation of data | Presentation of home task data by pie charts using coloured papers. | $\begin{aligned} & \text { http://epathshala.nic.in/QR/? } \\ & \text { id=0852CH05 } \end{aligned}$ | Presentation of data in tables, bar graph, histogram and pie charts. Also probability of sure and impossible events. |
| AUGUST | Chapter 3: Understanding Quadrilaterals | knowledge of quadrilaterals and it's properties | polygon family chart, Different shapes puzzles to identify polygons. proof of angle sum property of quadrilateral. | $\begin{aligned} & \text { http://epathshala.nic.in/QR/? } \\ & \text { id=0852CH03 } \end{aligned}$ | polygon and it's types, convex and concave, regular and irregular polygons, properties of polygons and it's application . |
| SEPTEMBER | TERM I EXAMINATION |  |  |  |  |
| OCTOBER | Chapter 7: Comparing Quantities | knowledge of different methods to compare quantities. | Billing Activities including GST/VAT | http://epathshala.nic.in/QR/? $\mathrm{id}=0852 \mathrm{CH} 08$ | calculation of ratio, profit/loss, discount, comparison of SI and CI, VAT, GST and their application in real life situations. |
|  | Chapter 13: Introduction to Graph | plotting of coordinates on graph or how to draw points on Cartesian plane. | Drawing of linear graph of body temperature report of a patient of one week. | $\begin{aligned} & \text { https://epathshala.nic.in/QR/? } \\ & \text { id=0852CH15 } \end{aligned}$ | knowledge of linear graphs, plotting of coordinates, different shapes by joining coordinates |


|  | Chapter 8: Algebraic expressions and identities | Knowledge of verification of identities | problem sums worksheet | $\begin{aligned} & \text { http://epathshala.nic.in/QR/? } \\ & \mathrm{id=0852CH09} \end{aligned}$ | Addition, subtraction, multiplication of expressions, use of algebraic identities to find product. |
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|  | Chapter 11: Direct and Inverse proportion | Knowledge of how two quantities are related to each other | Real life problems to identify when quantities are related directly. | $\begin{aligned} & \text { https://epathshala.nic.in/QR/? } \\ & \text { id=0852CH13 } \end{aligned}$ | Direct and inverse proportion |
| DECEMBER | Chapter 12: Factorisation | understanding of different methods to find factors | paper cutting and pasting activityto find factors of different expressions. | $\begin{aligned} & \text { https://epathshala.nic.in/QR/? } \\ & \text { id=0852CH14 } \end{aligned}$ | HCF, methods to find factors, division of one expression with other |
| JANUARY | Chapter 9: Mensuration | calculation of areas of 2D shapes and areas and volumes of 3D shapes | Making cylinder with paper cutting and finding it's volume and area by measuring it's dimensions. | https://epathshala.nic.in/QR/? $\mathrm{id}=0852 \mathrm{CH} 11$ | Areas of polygons like trapezium, parallelogram, rhombus etc and areas and volumes of cubes and cuboid, cylinder |
| FEBRUARY | REVISION OF UNIT 2 |  |  |  |  |
| MARCH | TERM II EXAMINATION |  |  |  |  |

