| MATHEMATICS | | | | |
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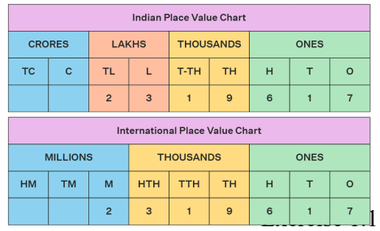
| **MONTH** | **NO. OF PERIODS** | TOPIC | SUB TOPIC | LEARNING OBJECTIVE |
| | | Chapter 1.<br>Knowing your numbers | *place value Chart (Indian & International)<br>*Insert commas suitably and write number names using Indian & international place value chart.<br>  <br>Indian Place Value Chart<br>CRORES: TC, C \| LAKHS: TL, L \| THOUSANDS: T-TH, TH \| ONES: H, T, O<br>2, 3, 1, 9, 6, 1, 7<br>International Place Value Chart<br>MILLIONS: HM, TM, M \| THOUSANDS: HTH, TTH, TH \| ONES: H, T, O<br>2, 3, 1, 9, 6, 1, 7 | Students will be able to<br>*write the place value of Indian and International system |
| | | Chapter 1.<br>Knowing your numbers | Exercise 1.2 based on word problems<br>*Apply appropriate operations (addition, subtraction, multiplication and division) in order to solves problems involving large numbers | * solve the word problems based on additions & Subtraction |
| | | Chapter 1.<br>Knowing your numbers | Exercise 1.2 based on word problems<br>*Apply appropriate operations (addition, subtraction, multiplication and division) in order to solves problems involving large numbers | * solve the word problems based on multiplication & division |
| | | Chapter 1.<br>Knowing your numbers | Exercise 1.2 based on word problems<br>*Apply appropriate operations (addition, subtraction, multiplication and division) in order to solves problems involving large numbers | * solve the word problems based on multiplication & division |
| | | Chapter 1.<br>Knowing your numbers | Art integrated activity / Lab activity-<br>Puzzle solving Activity<br><br>Place value chart game | *comprehend place value concept effectively |

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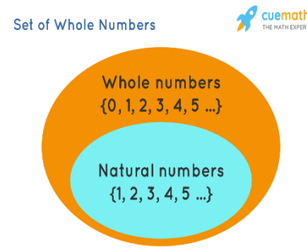
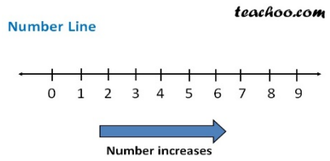
| **APRIL** | **19** | Chapter 1.<br>Knowing your numbers | * Doubt + Revision of topic | * clearify the doubts & Revise the concepts |
| | | Chapter 1.<br>Knowing your numbers | **Test** | assessment of students |
| | | Chapter 2.<br>Whole Numbers | *Natural numbers & whole numbers<br>  <br>* Predecessor & Successor | Identifies whole numbers& Find successor & predecessor |
| | | | *Draw the Number line and represent the whole number<br>  <br>*Draw a number line and find the predecessor and successor of a given number<br>* Ex-2.1 | Identifies whole numbers, represents on number line, |
| | | | Art integrated activity / Lab activity-<br>Whole number wheel<br>Using number line board | Students are able to know about natural numbers and whole numbers. |
| | | | Revision +Doubts | * clearify the doubts & Revise the concepts |
| | | | Test | assessment of students |
| | | | | *Finding the Factors & Multiples of a given number |

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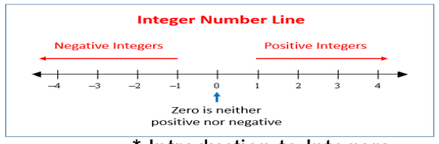
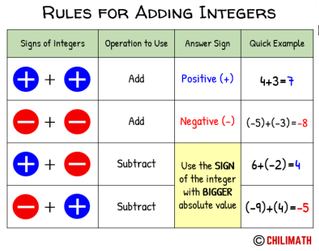
| | | Chapter 3.<br>Playing with Numbers | | *Activity allows students to practice calculating it. |
| | | | | * Identify even & odd numbers |
| | | | Exercise 3.2 based on Even odd and prime & composite | the broad classification of numbers as even, odd, |
| | | | | Apply the rules of |
| | | | *Ex - 3.3 based on | divisibility |
| | | | *Ex - 3.3 based on | divisibility |
| | | | Lab activity- | *Activity allows students to practice calculating it. |
| | | | Common Factor & common multiple | Find the common factors & common multiples |
| | | | * Prime Factorisation | Factories a number |
| | | | * Prime Factorisation | Factories a number |
| | | | *Highest Common Factor | List down the common factors of given |
| | | | Lab activity- | *Activity allows students to practice calculating it. |
| | | | *Continued Some Problems on HCF and LCM | Apply the concept of HCF and solve related real-life |
| | | | *Continued Some Problems on HCF and LCM | Apply the concept of HCF and solve related real-life |
| | | | Revision +Doubts | * clearify the doubts & Revise the concepts |
| | | | Test | assessment of students |
| **MAY** | **19** | Chapter 6 Integers |  <br>* Introduction to Integers<br>* Number Line<br>*EXERCISE 6.1 | *Represent integers with their signs and differentiate positive number, negative number and zero from each other<br>*Denote numbers with their signs and represent real life situations like temperature scale, credit, debit etc.<br>*Represent the integer on Number Line and determine its position with respect to other integers |
| | | | Art integrated activity / Lab activity-<br><br>Making integer board<br><br>Addition and subtraction activity for integers | Students will perform addition & subtraction using number line |
| | | | *EXERCISE 6.1 | Determine the order of integers and represent |
| | | | *Addition of Integer<br>*Subtraction of Integers<br>…traction of integers<br>  | *Represent the integers on numb er line and perform arithmetic operations on them<br>*Use the rules to perform arithmetic operations on integers |

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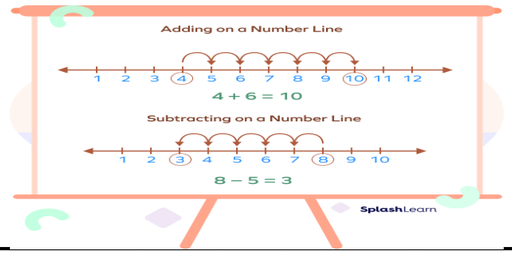
| **JULY** | **21** | Chapter 6 Integers | *EXERCISE 6.2 based Addition using number line   | *Use number line and add the following integers<br>*Add without using number line |
| | | | * EXERCISE 6.3 Subtraction of Integers | Use the rules to perform arithmetic operations on integers |
| | | | * EXERCISE 6.3 Subtraction of Integers | Use the rules to perform arithmetic operations on integers |
| | | | Test | assessment of students |
| | | Chapter 7 Fractions | *Concept of Fraction<br>*EXERCISE 7.1 | *Represent a number as a part of the whole and determine the fraction |
| | | | Art integrated activity / Lab activity- | This leadslearners through a fun hands-on activity to explore halves, quarters and |
| | | | h | *Draw equal parts between the whole numbers and |
| | | | *Equivalent Fractions | *Multiply /Divide the numerator and denominator |
| | | | Lab activity- | * to show equivalent fractions |
| | | | *Like Fractions | *Check the denominators of the fractions in order |
| | | | Contd EXERCISE 7.4 | |
| | | | *Addition and Subtraction of Fractions (Like & Unlike) | *Solve (addition /subtraction) the numerator and retain the denominator of |
| | | | Revision +Doubts | * clearify the doubts & Revise the concepts |
| | | | Test | assessment of students |
| **AUGUST** | **18** | Chapter 8 Decimals | *Checking previous Knowledge | *Conversion of unlike decimals to like decimals |
| | | | *Art integrated activity / Lab activity- | This decimal activity allows students to practice writing decimals, putting |
| | | | * Using Decimals | *Write rupees and paisa in decimal form and know |
| | | | Continued | *Represent /Convert the money, length and weight |
| | | | *Addition of Numbers with Decimals | *Add and subtract the whole and parts of decimal numbers |
| | | | *Addition of Numbers with Decimals | *Add and subtract the whole and parts of decimal numbers |
| | | | *Subtraction of Decimals | *Add and subtract the whole and parts of decimal numbers |
| | | | *Subtraction of Decimals | *Add and subtract the whole and parts of decimal numbers |
| | | | Lab Acitivty | useful in understanding addition of decimals. |
| | | | Revision +Doubts | * clearify the doubts & Revise the concepts |
| | | | Test | assessment of students |
| | | Revision for Half-yearly | Revision for Half-yearly | to recall the previous topics |
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| **SEPTEMBER** | **16** | chapter 4 -<br>Basic Geometrical Ideas | Basic Geometrical Ideas<br>*About geometrical shapes<br>* A Line Segment<br>*A Line<br>*Ray<br>*Intersecting Lines<br>*Parallel Lines | * Give example(s) and explain the importance of a<br>point, line, line segment & Ray<br>*Examine the given lines and identify intersecting lines among them.<br>*Examine the given lines and identify parallel lines<br>among them. |
| **OCTOBER** | **18** | chapter 4 -<br>Basic Geometrical Ideas | *EXERCISE 4.1 | *. Use the figure to name the Rays, point, line segment & line |
| | | | *EXERCISE 4.1 | *Draw a rough figure and label suitably the given situation |
| | | | *Curves | *Give example(s) and |
| | | | Art integrated activity / Lab activity- | To identify curves & Polygon using Geo Board |
| | | | EXERCISE 4.2 | *Examine the given curves and identify polygons and non-polygons. |
| | | | Angles | *Identify the elements of an Angle (Vertex, arm, interior and exterior angles |
| | | | EXERCISE 4.3 | *Name the angles in the given figures |
| | | | Art integrated activity / Lab activity- | Identify the type of Angles |
| | | | Revision +Doubts | * clearify the doubts & Revise the concepts |
| | | | Test | assessment of students |
| **NOVEMBER** | **20** | Chapter 12<br>Ratio and<br>Proportion Proportio | * Comparison of two quantities | *Represent two quantities in same unit and |
| | | | EXERCISE 12.1 | **Compare two quantities |
| | | | EXERCISE 12.1 | **Compare two quantities |
| | | | Art integrated activity / Lab activity- | **Compare two quantities |
| | | | EXERCISE 12.1 | **Compare two quantities |
| | | | Art integrated activity / Lab activity- | **Compare two quantities |
| | | | * Proportion | Compare ratio and determine whether they are in |
| | | | EXERCISE 12.2 Practice | Compare ratio and determine whether they are in |
| | | | EXERCISE 12.2 Practice | Compare ratio and determine whether they are in<br>proportion |
| | | | *Unitary Method | Solve the proportion and find out the missing term |
| | | | * EXERCISE 12.3 | Solve the proportion and find out the missing term |
| | | | Art integrated activity / Lab activity-<br>Using objects Find the Ratio, | Students can compare two items |
| | | | Revision +Doubts | * clearify the doubts & Revise the concepts |
| | | | Test | assessment of students |
| **DECEMBER** | **21** | | *Measuring Line Segments | *Measure the given line segments and compare them. |
| | | | EXERCISE 5.1 | *Measure the given line segments and compare them. |
| | | | *Angles – ‘Right’ and ‘Straight’ | Examine the rotation of angles and classify angles based on the amount of |
| | | | | Examine the rotation of angles and classify angles based on the amount of |
| | | | *Angles – ‘Acute’, ‘Obtuse’ and ‘Reflex’ | Compare the given angles |
| | | | | Compare the given angles |
| | | | *Art integrated activity / Lab activity-<br>*Show various types of angles by paper folding.<br>*Making protractor using paper | *Compare the given angles and classify them as an<br>acute angle, obtuse angle or a reflex angle according to their measure.<br><br>*Use a protractor and draw an angle of the given<br>measure. |

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| DECEMBER | 21 | Chapter 5<br>ElementaryElementary<br>Shapes | **Measuring Angles | *Use a protractor and measure the given angle and |
| | | | *EXERCISE 5.4 | *Use a protractor and measure the given angle and |
| | | | * Perpendicular Line | Describe perpendicular and a perpendicular bisector and identify the same |
| | | | *EXERCISE 5.5 | Give example(s) of perpendicular lines and |
| | | | *Classification of Triangles | Observe the measure of sides of a triangle and |
| | | | *EXERCISE 5.6 | Classification of triangle on the basis of their sides & Angles |
| | | | *Quadrilaterals | Differentiate the quadrilaterals as Rectangle , Square, Parallelogram |
| | | | EXERCISE 5.7 | Examine the given figures and |
| | | | *Polygons | Examine the given figures and identify polygons. |
| | | | Revision +Doubts | * clearify the doubts & Revise the concepts |
| | | | Test | assessment of students |
| JANUARY | 19 | Chapter 9<br>Data Handling | Interpretation of a table | *Group and compare raw data systematically and |
| | | | *Pictograph | Observe and understand pictograph representation of data and answer |
| | | | Art integrated activity / Lab activity- | To enhance the understanding of topic by a simple survey. |
| | | | Revision +Doubts | * clearify the doubts & Revise the concepts |
| | | | Test | assessment of students |
| | | Chapter 11<br>Algebra | * Introduction | *Describe algebraic expressions |
| | | | Exercise 11.1 | form a rule for the given |
| | | | Art integrated activity / Lab activity- | To form Rule using Matchstick pattern |
| | | | Test | assessment of students |
| FEBRUARY | 18 | Chapter 10<br>Mensuration | * Perimeter | |
| | | | Art integrated activity / Lab activity- | using Geo board students will estimate the perimeter of the given figure |
| | | | EXERCISE 10.1 | Give example(s) and define perimeter of closed |
| | | | *EXERCISE 10.1 | *Deduce and apply the formula to determine the |
| | | | Art integrated activity / Lab activity- | using Geo board students will Count the squares and estimate the area of |
| | | | *Area | *Count the squares and estimate the area of the given closed curve |
| | | | *EXERCISE 10.3 | *apply the formula and determine the |
| | | | *EXERCISE 10.3 | *apply the formula and determine the |
| | | | Test | assessment of students |
| | | Revision for Half-yearly | Revision | to recall the previous topics |
| | | | Revision | to recall the previous topics |
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