## ARMY PUBLIC SCHOOL, BANGALORE <br> SPLIT UP SYLLABUS 2024-25

CLASS - VII
SUBJECT- MATHEMATICS

| $\begin{aligned} & \text { SL. } \\ & \text { NO. } \end{aligned}$ | MONTH \& WORKING DAYS | CONTENT | No. of Periods | LEARNING OUTCOMES | ACTIVITIES | $\begin{gathered} \text { STATUS OF } \\ \text { COMPLETION } \end{gathered}$ | REMARKS |
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| 1. | APRIL, 13 DAYS | INTEGERS | 11 | Recall integers in order to differentiate between whole numbers and integers Represent integers on a number line and perform operations and verify properties of integers. <br> Apply properties of addition, subtraction and multiplication of integers and devise methods for easier calculation and solve problems based on real life related to integers. <br> Apply properties of division of integers and simplify arithmetic expressions. | To demonstrate multiplication of integers using number line. |  |  |


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|  |  |  |  | altitude of a triangle in order to identify it for the given triangle. <br> - Apply the exterior angle property of a triangle in order to find the measure of the unknown angle in the given triangle. <br> > Apply the angle sum property of a triangle in order to find the measure of unknown angle. |  |  |  |
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| 5. | $\begin{array}{\|l\|} \hline \text { SEPT, } \\ \text { 21 DAYS } \end{array}$ | THE TRIANGLE AND ITS PROPERTIES (HY) | 5 | > Apply the property of lengths of sides of a triangle in order to determine whether a triangle is possible for the given side lengths or not. <br> > Apply the Pythagoras property in order to verify whether the triangle for the given side lengths will be right angled triangle or not. <br> > Apply the Pythagoras property in order to fine the length of the unknown side in a right-angled triangle | To verify the angle sum property of a triangle. |  |  |
| 6. | OCT, <br> 15 DAYS | COMPARING QUANTITIES |  | $>$ Convert ratios into like fractions and compare them in order to identify equivalent ratios. <br> $>$ Represent equal ratios in | Collection of 5 different bills and finding the following |  |  |



| 7. | $\begin{aligned} & \text { NOV, } \\ & 21 \text { DAYS } \end{aligned}$ | RATIONAL NUMBERS | 12 | $>$ Define rational numbers in order to classify a number as a rational number. Represent integers in the form of numerator/denominator where denominator is non-zero in order to define rational numbers. Multiply numerator and denominator by same non-zero integer in order to find equivalent rational numbers. <br> Define positive and negative rational numbers in order to classify a number as either of them. Construct a number line in order to represent rational numbers on it. Simplify rational number such that there is no common factor between numerator and denominator in order to represent the number in standard form. Determine the distance of a rational number from 0 in order to compare them. <br> $>$ Calculate and find rational numbers between any 2 rational numbers in order to infer that there are infinite | To add/ subtract two rational numbers using Graph sheet. |  |
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|  |  |  |  | describe the relationships among radius, diameter, and circumference of circles. Investigate different circumference of circles and compare them with their respective diameter in order to relate circumference to Pi . Use direct or indirect methods to find the circumference of circle, semicircle. <br> Develop and apply the formula in order to find the area of a circle and semicircle. <br> Examine area and perimeter of different figures in order to find solution for real life problems |  |  |  |
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| 8. | DEC, <br> 17 DAYS | ALGEBRAIC EXPRESSIONS | 13 | Describe algebraic expressions in order to distinguish them from arithmetic expressions. Combine variables and constants in order to form an algebraic expression for the given statement. <br> $>$ Examine the given algebraic expression in order to determine its terms and their factors. <br> $>$ Examine the given algebraic | To differentiat e like and unlike terms using card game. |  |  |





|  |  |  | symmetry) in order to identify <br> the figure. <br> Examine the given figure in <br> order to determine its angle of <br> rotation. <br> Examine the given figure in <br> order to determine its order of <br> rotation. <br> Examine the given figures <br> in order toidentify figures <br> which have both line <br> symmetry as well as <br> rotational symmetry |  |  |  |
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| 10. | FEB, <br> 22 DAYS | REVISION |  | ( |  |  |

## BOOKS: NCERT MATH TEXTBOOK

## PRINCIPAL'S SIGNATURE

