## O.P JINDAL SCHOOL, SAVITRINAGAR, TAMNAR

Annual Syllabus Break-up for session 2023-2024
Subject : MATHEMATICS Class : VIII

| S. | Month | No. of <br> Instructional <br> Days | No. of <br> Periods | Chapters to <br> be taught | Subject enrichment <br> Activities | Values to be <br> Imparted | Extra <br> content <br> to be <br> taught |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | April | 21 | 14 | 1. Rational numbers | * To learn addition of rational <br> numbers with the help of <br> number line. | * Students will able to <br> add, subtract, <br> multiply and divide <br> two rational numbers. | Mental <br> maths |
| 2 |  |  |  |  |  |  |  |

\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \& \& \& 6 \& 10. Visualising solid shapes \& *To make a pentagonal pyramid. \& * It helps to develop intellectual and logical thinking in students to look 3D objects or shapes. \& Mental maths \\
\hline 7 \& November \& 13 \& 7
8 \& \begin{tabular}{l}
11. Area of polygon \\
12. Surface area and Volume of solids
\end{tabular} \& \begin{tabular}{l}
* To show that the area of a rhombus is equal to half the product of its diagonals. \\
* To verify the formula for surface area of a cuboid by activity method.
\end{tabular} \& \begin{tabular}{l}
*It helps to create understanding to find area of different polygons. \\
*It helps student to find the surface area and volume of solids.
\end{tabular} \& \begin{tabular}{l}
Mental maths \\
Mental maths
\end{tabular} \\
\hline 8 \& December \& 19 \& 10

12 \& \begin{tabular}{l}
13. Exponents and powers <br>
14. Direct and inverse proportions

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* To prepare a collection of all formulas of exponents and power in a chart paper. <br>
* To develop the concept of inverse variation by activity.

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*It help students to abbreviate or write in short something that would otherwise be really long and difficult to write. <br>

* Students will able to solve problem that is directly or inversely proportion.

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Mental maths <br>
Mental maths
\end{tabular} <br>

\hline 9 \& January \& 22 \& 14 \& | 15. Factorisation |
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| 16. Introduction to graphs |
| 17. Playing with numbers | \& | * Collect real life situations and convert into algebraic expressions. |
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| * Locate different quadrants in a graph including the sign of abscissa and ordinate in each quadrants. |
| * To observe the following number patterns and generate it up to next three steps |
| i) $1^{2}=1$ |
| ii) $11^{2}=121$ |
| iii) $111^{2}=12321$ | \& | * It helps to simplify expressions, simplify fractions and solve equations. |
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| *Graph help students to present data that are too numerous or complicated to be described adequately in the text and in less space. |
| *It develop logical reasoning and critical thinking of students and enhance speed of calculation. | \& | Mental maths |
| :--- |
| Mental maths |
| Mental maths | <br>

\hline 10 \& February \& March \& \& \& Revision \& Term-2 annual Exam \& \& \& <br>
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\end{tabular}

SYLLABUS FOR EXAMINATION

| S. NO. | EXAMINATION | SYLLABUS FOR EXAMINATION |
| :---: | :---: | :--- |
| 1 | Test -1 | Ch-1,2 |
| 2 | Term -1 (Half yearly Exam) | Ch- 1, 2, 3, 4, 5, 6, 7, 8 |
| 3 | Test - 2 | Ch- 9,10 |
| 4 | Term -2 (Annual Exam) | Ch- $3,5,9,10,11,12,13,14,15,16,17$ |

