

**ARMY PUBLIC SCHOOL, MUMBAI (2018-19)**  
**STANDARD CURRICULUM**

**CLASS :-VIII**

**SUB :- MATHEMATICS**

| <b>Sr. No.</b> | <b>Month</b> | <b>Topic</b>                         | <b>Activities</b>   | <b>Values</b>  | <b>Core Values</b>                                |
|----------------|--------------|--------------------------------------|---|--|---|
| 1              | April        | RATIONAL NUMBERS                     | Interactive interaction, discussion, direct instruction, investigation and problem solving. | Curiosity<br>Awareness of human relations and non living objects<br>Critical thinking<br>Problem solving                       | <b>Knowledge</b>                                  |
| 2              | April        | LINEAR EQUATION IN ONE VARIABLE      | Interactive interaction, discussion, direct instruction and problem solving.                | Higher order thinking Skills<br>Problem solving  | <b>Knowledge</b>                                  |
| 3              | May          | UNDERSTANDING QUADRILATERALS         | Interactive interaction, discussion, direct instruction, investigation and problem solving. | Time Managements<br>Gender Sensitive   | <b>Environmental Awareness</b>                    |
| 4              | June         | PRACTICAL GEOMETRY                   | Interactive interaction, discussion, direct instruction, investigation and problem solving. | Punctuality, obedience and honesty<br>Awareness and Conservation of environment<br>Curiosity<br>Confidence<br>Positive outlook | <b>Environmental Awareness</b>                    |
| 5              | July         | SQUARE AND SQUARE ROOTS              | Interactive interaction, discussion, direct instruction and problem solving.                | Innovative mindset<br>Critical Thinking<br>Logical Thinking<br>Higher order thinking   | <b>Positive Attitude</b>                          |
| 6.             | July         | CUBE AND CUBE ROOTS                  | Interactive interaction, discussion, direct instruction, investigation and problem solving. | Punctuality, obedience and honesty<br>Awareness and Conservation of environment<br>Curiosity<br>Confidence<br>Decision Making  | <b>Positive Attitude</b>                          |
| 7              | August       | COMPARING QUANTITIES                 | Interactive interaction, discussion, direct instruction and problem solving.                | Critical Thinking<br>Logical Thinking<br>Higher order thinking<br>Innovative mindset<br>Problem solving                        | <b>National Pride</b><br><b>Scientific Temper</b> |
| 8              | September    | ALGEBRAIC EXPRESSIONS AND IDENTITIES | Interactive interaction, discussion, direct instruction, investigation and problem solving. | Reasoning/ logical thinking<br>Critical Thinking<br>Logical Thinking   | <b>Time Management</b>                            |

|     |          |  |   |  |                               |
|-----|----------|--|---|--|-------------------------------|
|     |          |  |   | Higher order thinking  |                               |
| 9   | October  | VISUALISING SOLID SHAPES                 | Interactive interaction, discussion, direct instruction, investigation and problem solving. | Creative Thinking<br>Awareness and Conservation of environment<br>Curiosity<br>Confidence<br>Decision Making | <b>Respecting Differences</b> |
| 10  | November | MENSURATION AND EXPONENTS AND POWERS     | Interactive interaction, discussion, direct instruction and problem solving.                | Creative Thinking<br>Curiosity<br>Confidence<br>Problem solving  | <b>Health and wellness</b>    |
| 11. | December | DATA HANDLING AND INTRODUCTION TO GRAPHS | Interactive interaction, discussion, direct instruction, investigation and problem solving. | Curiosity<br>Confidence<br>Long term vision<br>Problem solving   | <b>Health and wellness</b>    |
| 12  | January  | FACTORISATION                            | Interactive interaction, discussion, direct instruction, investigation and problem solving. | Decision making<br>Confidence<br>Discipline<br>Awareness and Conservation of environment                     | <b>Camaraderie</b>            |
| 13  | February | PLAYING WITH NUMBERS                     | Interactive interaction, discussion, direct instruction, investigation and problem solving. | Punctuality<br>Awareness and Conservation of environment<br>Curiosity<br>Problem solving                     | <b>Self Direction</b>         |
| 14  | March    | EXPONENTS AND POWERS                     | Interactive interaction, discussion, direct instruction, investigation and problem solving. | Curiosity<br>Confidence<br>Long term vision<br>Problem solving   |                               |