



## Maths Curriculum- Grade 7

QUARTER	TOPICS
QUARTER 1	<p><b>Number Sense and Operations:</b></p> <p>Applying the properties of operations with rational numbers (positive and negative fractions, decimals, and integers)</p> <p>Performing operations with rational numbers</p> <p>Solving word problems involving rational numbers</p> <p><b>Ratios and Proportional Relationships:</b></p> <p>Understanding proportional relationships and solving problems using ratios and rates</p> <p>Finding and using unit rates</p> <p>Solving proportions and percent problems</p> <p><b>Foundations for Algebra:</b></p> <p>Simplifying algebraic expressions</p> <p>Solving one-step and multi-step equations and inequalities</p> <p>Representing and analyzing relationships using tables, graphs, and equations</p>
QUARTER 2	<p><b>Geometry:</b></p> <p>Understanding and applying the properties of geometric figures (angles, triangles, quadrilaterals)</p> <p>Calculating area, circumference, and volume of geometric shapes</p> <p>Applying transformations (translations, reflections, rotations) to shapes</p> <p><b>Power and Indices:</b></p> <p>Positive and negative exponents</p> <p>Scientific Notation</p> <p><b>Proportional Relationships and Percents:</b></p> <p>Understanding and solving problems involving percent increase and decrease</p> <p>Applying percent proportions and solving percent equations</p> <p>Solving real-world problems involving ratios, rates, and proportions</p>
QUARTER 3	<p><b>Expressions and Equations:</b></p> <p>Solving real-world and mathematical problems involving equations and inequalities</p> <p>Understanding and representing linear relationships</p> <p>Analyzing and interpreting patterns and functions</p> <p><b>Geometry:</b></p> <p>Understanding and applying the Pythagorean Theorem</p> <p>Identifying and applying properties of similar figures</p> <p>Understanding and calculating the surface area and volume of three-dimensional shapes</p> <p><b>Probability and Statistics:</b></p> <p>Conducting statistical experiments and analyzing data</p> <p>Understanding and calculating theoretical and experimental probabilities</p> <p>Making predictions and drawing conclusions based on data</p> <p><b>Permutation and Combination:</b></p> <p>Rank and order</p> <p>Probability using permutation and combination</p>
QUARTER 4	<p><b>Proportional Relationships and Percents:</b></p> <p>Solving problems involving scale drawings and similar figures</p> <p>Applying percent concepts to solve real-world problems</p> <p>Understanding and calculating simple and compound interest</p> <p><b>Expressions and Equations:</b></p> <p>Understanding and applying the concept of slope</p> <p>Graphing linear equations and understanding their properties</p> <p>Solving systems of equations</p> <p><b>Problem Solving and Reasoning:</b></p> <p>Applying problem-solving strategies to a variety of mathematical situations</p> <p>Using critical thinking skills to solve complex problems</p> <p>Communicating mathematical reasoning and justifying solutions</p>

### Disclaimer

- \*\* 1. The curriculum is subjected to changes and upgradation as per the feedback received from our customers.
2. Project and activities will depend on the type of course and tier.
3. Moonpreneur reserves all the rights to update its curriculum at any given point in time.

