

# Course 3 Overview

Over the course of this year we will focus on five different areas:

The Number System:

- Know that there are numbers that are not rational, and approximate them by rational numbers.

Expressions and Equations:

- Work with radicals and integer exponents.
- Understand the connections between proportional relationships, lines, and linear equations.
- Analyze and solve linear equations and pairs of simultaneous linear equations.

Functions:

- Define, evaluate, and compare functions.
- Use functions to model relationships between quantities.

Geometry:

- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand and apply the Pythagorean Theorem.
- Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.

Statistics and Probability

- Investigate patterns of association in bivariate data.