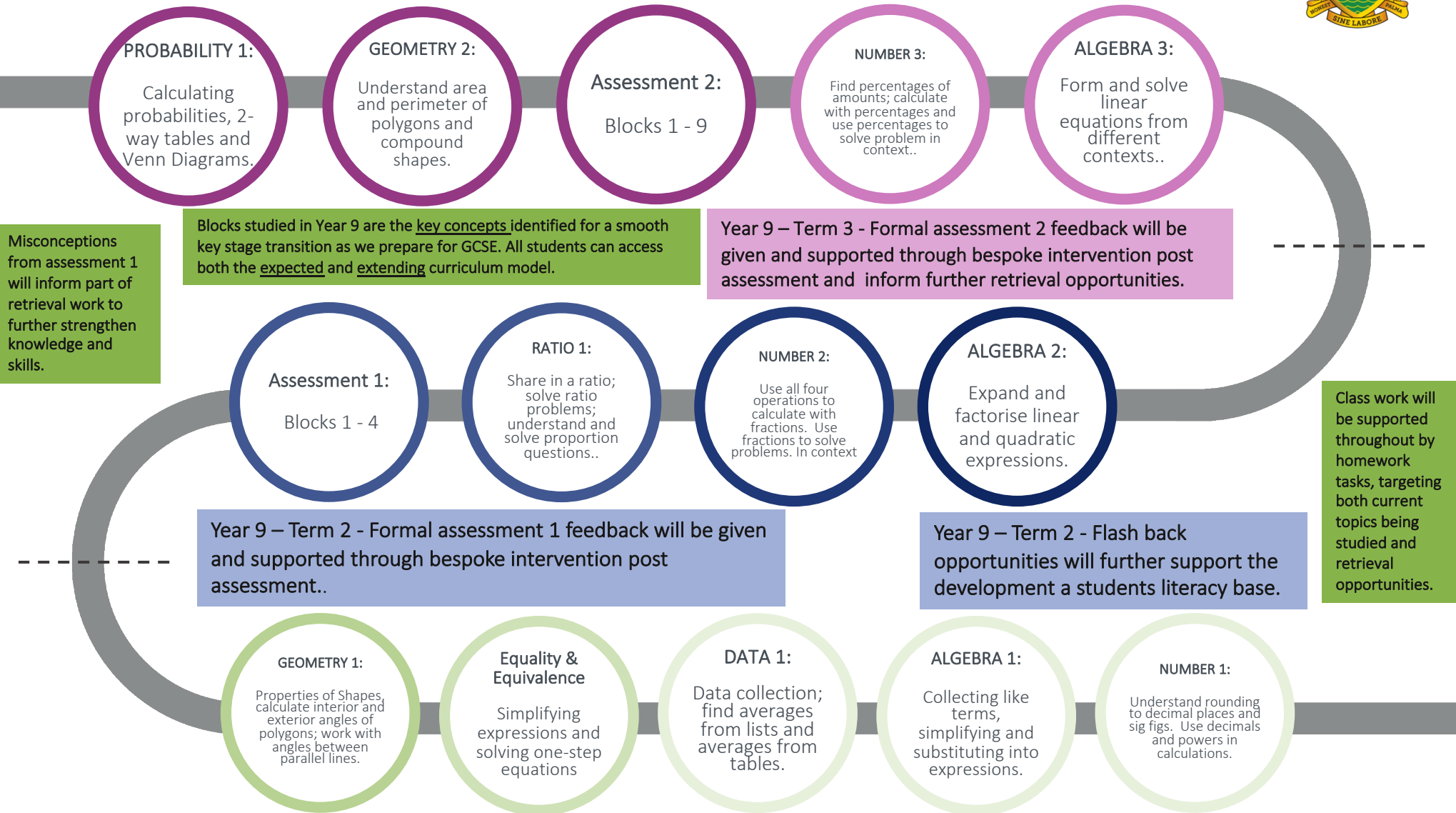# Mathematics Curriculum Map (Year 9)

[2022 – 2023]

The identified key concepts are taught for depth both at procedural knowledge level but more importantly the application of these key skills

**PROBABILITY 1:** Calculating probabilities, 2-way tables and Venn Diagrams.

**GEOMETRY 2:** Understand area and perimeter of polygons and compound shapes.

**Assessment 2:** Blocks 1 - 9

**NUMBER 3:** Find percentages of amounts; calculate with percentages and use percentages to solve problem in context..

**ALGEBRA 3:** Form and solve linear equations from different contexts..

Blocks studied in Year 9 are the key concepts identified for a smooth key stage transition as we prepare for GCSE. All students can access both the expected and extending curriculum model.

Year 9 – Term 3 - Formal assessment 2 feedback will be given and supported through bespoke intervention post assessment and inform further retrieval opportunities.

Misconceptions from assessment 1 will inform part of retrieval work to further strengthen knowledge and skills.

**Assessment 1:** Blocks 1 - 4

**RATIO 1:** Share in a ratio; solve ratio problems; understand and solve proportion questions..

**NUMBER 2:** Use all four operations to calculate with fractions. Use fractions to solve problems. In context

**ALGEBRA 2:** Expand and factorise linear and quadratic expressions.

Class work will be supported throughout by homework tasks, targeting both current topics being studied and retrieval opportunities.

Year 9 – Term 2 - Formal assessment 1 feedback will be given and supported through bespoke intervention post assessment..

Year 9 – Term 2 - Flash back opportunities will further support the development a students literacy base.

**GEOMETRY 1:** Properties of Shapes, calculate interior and exterior angles of polygons; work with angles between parallel lines.

**Equality & Equivalence** Simplifying expressions and solving one-step equations

**DATA 1:** Data collection; find averages from lists and averages from tables.

**ALGEBRA 1:** Collecting like terms, simplifying and substituting into expressions.

**NUMBER 1:** Understand rounding to decimal places and sig figs. Use decimals and powers in calculations.

Year 9 – Term 1 - At the end of each block, students will complete a summative assessment to check knowledge and understanding, with the teacher will providing opportunities to secure knowledge and understanding following these assessments.

Year 9 – Term 1 - Misconceptions from Year 8 will inform part of your retrieval work to further strengthen procedural knowledge base.

THE HEATH — HONEST — SINE LABORE — PALMA