

Year 10 Maths Term 1

1. Percentages

- Compound interest calculations
- Growth and decay

1

3. Simultaneous Equations and Formulae

- Solving simultaneous equations algebraically
- Solving simultaneous equations graphically
- Constructing and solving simultaneous equations
- Changing the subjects of formulae

3

5. Constructions

- Constructing bisectors
- Constructing loci

5

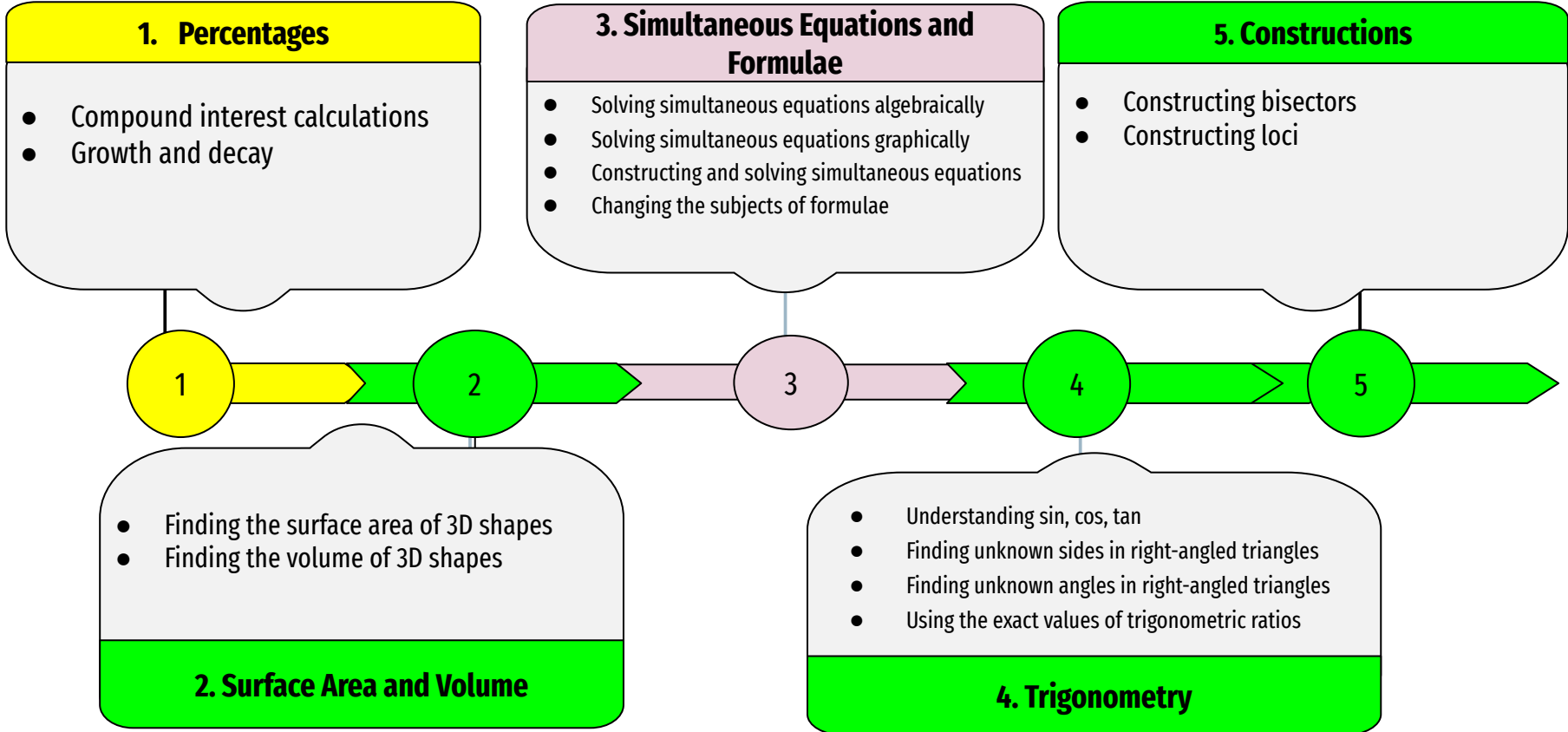
- Finding the surface area of 3D shapes
- Finding the volume of 3D shapes

2. Surface Area and Volume

- Understanding sin, cos, tan
- Finding unknown sides in right-angled triangles
- Finding unknown angles in right-angled triangles
- Using the exact values of trigonometric ratios

4. Trigonometry

4



Year 10 Maths Term 2

1. Linear Graphs

- Finding the equation of a straight line from its gradient and a point
- Finding the equation of a straight line from two points on the line
- Equations of parallel lines

1

3. Set Notation and Tree Diagrams

- Venn diagrams with set notation
- Using set notation
- Tree diagrams for independent events
- Tree diagrams for dependent events

3

5. Graphs

- Plotting velocity-time graphs
- Calculating acceleration from velocity-time graphs
- Graphs of cubic functions
- Graphs of reciprocal functions

5

- Plotting linear real-life graphs
- Using and interpreting linear real-life graphs
- Finding equations of linear real-life graphs
- Sketch graphs of water flows

2. Real-life Graphs

- Calculating with density
- Calculating with pressure
- Combining ratios
- Calculating with ratios and algebra
- Changing ratios

4. Compound Measure and Ratio

Year 10 Maths Term 3 (S and C)

1. Sequences and Handling Data

- Position-to-term rules for arithmetic sequences
- Position-to-term rules for sequences of patterns
- Position-to-term rules for geometric sequences
- Sampling and bias

1

3. Rounding and Indices

- Finding error intervals
- Index rules with positive indices
- Index rules with negative indices
- Simplifying expressions using index laws

3

5. Handling Data and Statistical Diagrams

- Interpreting frequency tables with grouped data
- Finding averages from grouped data
- Drawing and interpreting stem-and-leaf
- Drawing and interpreting line graphs
- Drawing and interpreting frequency polygons

5

- Interpreting direct proportion equations
- Interpreting inverse proportion equations
- Graphs of direct and inverse proportion
- Combining transformations

2. Proportion and Transformations

- Expanding double brackets
- Factorising quadratic expressions
- Factorising the difference of two squares
- Factorising to solve quadratic equations of the form $x^2+bx+c=0$

4. Brackets

Year 10 Maths Term 3 (P and M)

1. Sequences and Handling Data

- Position-to-term rules for quadratic sequences
- Position-to-term rules for geometric sequences
- Special sequences
- Sampling and bias
- Capture-recapture

1

3. Rounding, Indices and Recurring Decimals

- Finding bounds for calculations
- Estimating roots and powers
- Indices of the form $1/a$ and a/b
- Converting fractions to recurring decimals
- Converting recurring decimals to fractions

3

5. Handling Data and Statistical Diagrams

- Drawing cumulative frequency graphs
- Interpreting cumulative frequency graphs
- Drawing box plots
- Interpreting box plots
- Comparing populations using box plots and cumulative frequency graphs

5

- Constructing direct proportion equations
- Constructing inverse proportion equations
- Graphs of direct and inverse proportion
- Enlargement by a positive or negative scale factor
- Combining transformations

2. Proportion and Transformations

- Expanding triple brackets
- Completing the square
- Factorising quadratic expressions of the form ax^2+bx+c
- Factorising to solve quadratic equations of the form $ax^2+bx+c=0$

4. Brackets

Colour key

Number



Algebra



Shape



Data



Ratio and proportion

