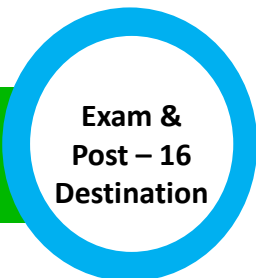


Maths Learning Journey



Understanding variables Drawing graphs and analysing graphical data Writing methods Analysis of secondary data Assessing impact of scientific concepts Modelling scientific concepts Understanding relationships between science and society Drawing conclusions IDEAL Identify, describe, explain, apply, link Applying maths to the scientific concepts Describe patterns

Quadratics Inequalities Bearings Circle theorem Further Trigonometry & Trigonometric graphs Transformations Graphical Vectors Congruence (Further) Gradients, and area under a graph Kinematics



Iterations Functions Solving Simultaneous equations Solving quadratics Equations Algebraic proof

Similar shapes Loci Constructions Plans and elevations Trigonometry Further ratio

Simple Interest Statistics



Linear Equations Expressions & Substitution Expanding & Factorising Simplifying & Index Laws Notation

Linear Graphs $Y=mx+c$ Compound measure Quadratic Graphs Simultaneous Equations Probability Growth and decay Bounds Recurring decimals Further Proportion Rearranging Formulae Further Graphs Capture & Recapture Surds

Pythagoras Angle facts circles Volume and surface area Sequences Basic vectors Proportion Percentages Fractions FDP Ratio (basic) Rounding & estimation Indices Powers & Roots Factors, Multiples & Primes 4 Rules - Decimals Place value & Number Properties



Sequences Forming and solving inequalities Accuracy and estimation Ratio Direct and inverse proportion Bivariate data Bearings Forming and solving equations Linear graphs Real life graphs and rate of change Univariate data Angles in polygons Circles and composite shapes Volume and surface area of prisms

Percentages Manipulating and calculating with fractions Prime factor decomposition Conceptualising and comparing fractions Transforming 2-D figures Coordinates Classifying 2D shapes Expressions, equations and inequalities Order of operation Axioms and arrays

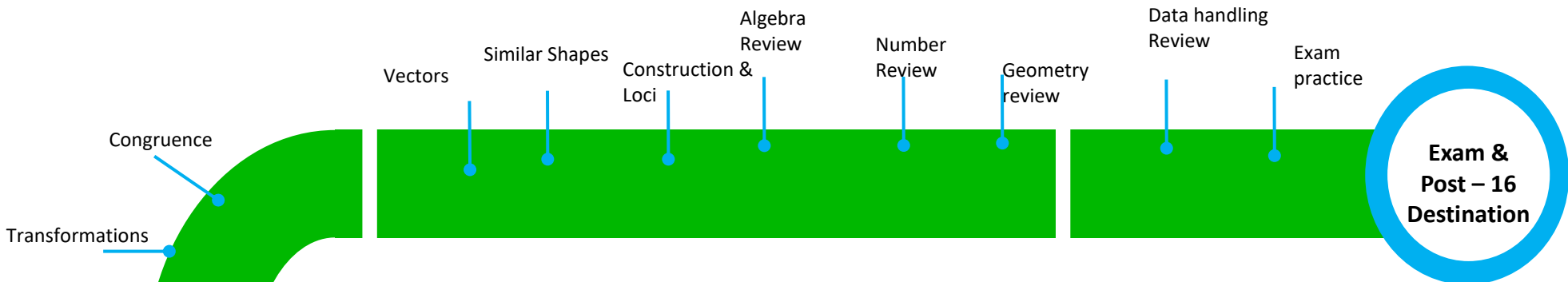
Area of 2-D shapes Constructing triangles and quadrilaterals Angles Positive and negative numbers Factors and multiples Numbers and numerals



Maths Learning Journey



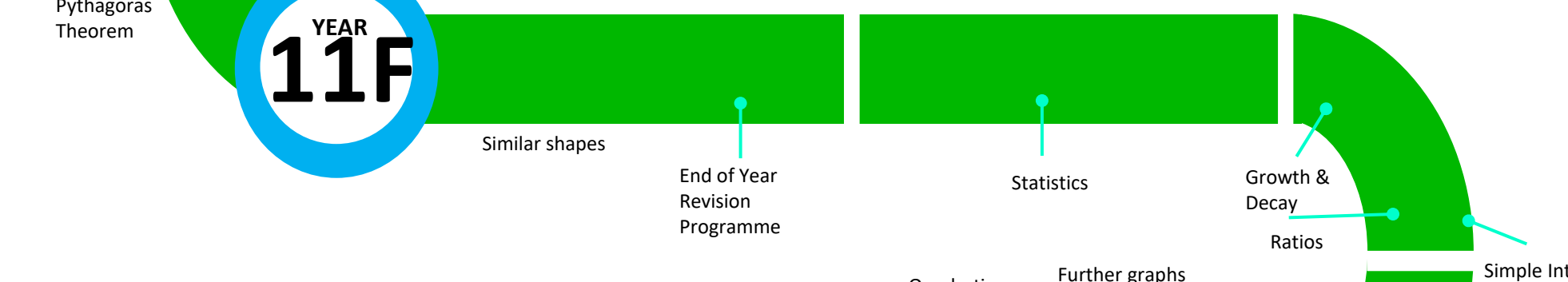
- Understanding variables
- Drawing graphs and analysing graphical data
- Writing methods
- Analysis of secondary data
- Assessing impact of scientific concepts
- Modelling scientific concepts
- Understanding relationships between science and society
- Drawing conclusions
- Applying maths to the scientific concepts
- Describe patters
- IDEAL Identify, describe, explain, apply, link



YEAR 11F

- Congruence
- Transformations
- Bearing & Scale drawings
- Right Angled Trigonometry
- Pythagoras Theorem

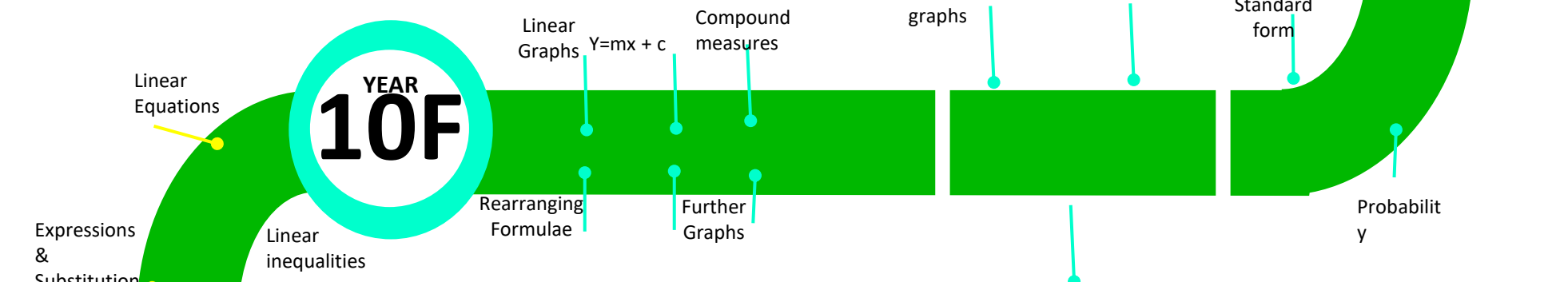
- Vectors
- Similar Shapes
- Construction & Loci
- Algebra Review
- Number Review
- Geometry review
- Data handling Review
- Exam practice



YEAR 10F

- Linear Equations
- Expressions & Substitution
- Expanding & Factorising
- Simplifying & Index Laws

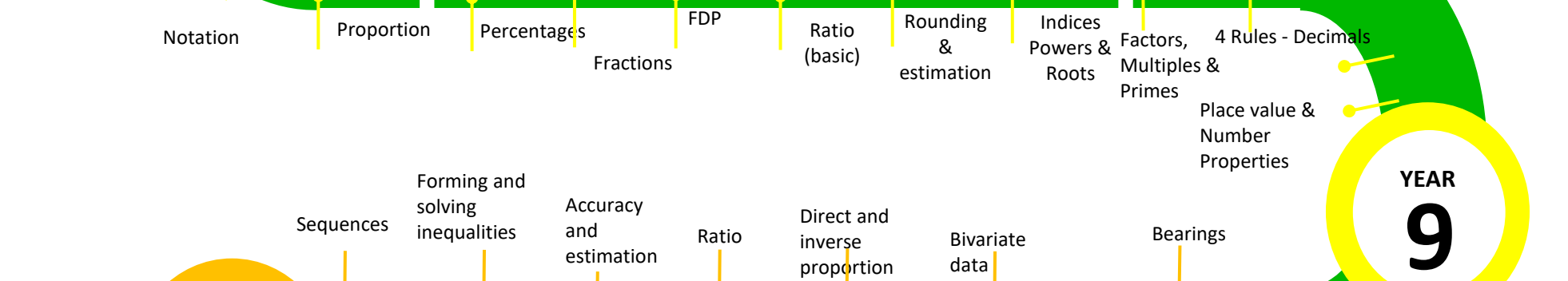
- Similar shapes
- End of Year Revision Programme
- Statistics
- Growth & Decay
- Ratios
- Simple Interest



YEAR 9

- Linear Graphs $Y=mx+c$
- Compound measures
- Quadratics graphs
- Further graphs
- Standard form
- Probability

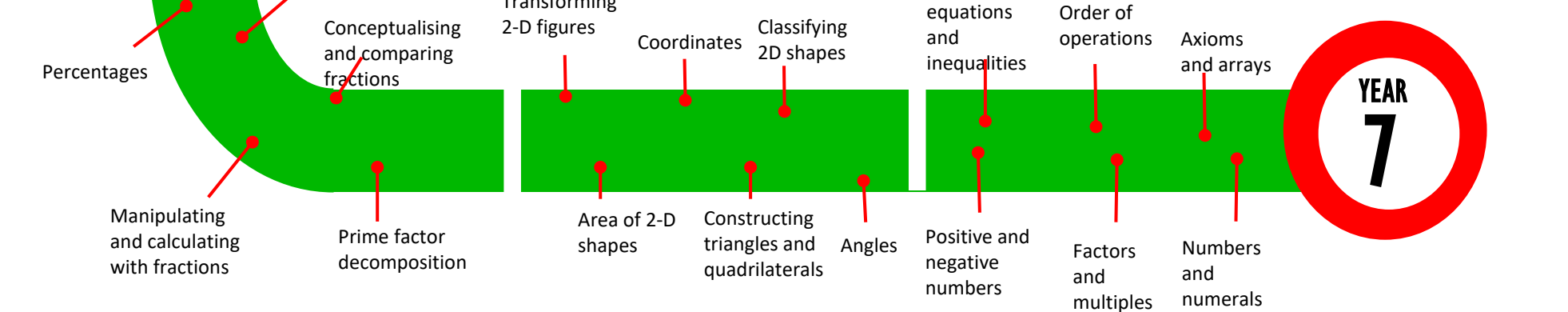
- Rearranging Formulae
- Further Graphs
- Simultaneous equations
- Linear inequalities
- Parallel lines
- Perimeter and area
- Pythagoras
- Angle facts
- circles
- Volume and surface area
- Sequences
- Basic vectors



YEAR 8

- Notation
- Proportion
- Percentages
- Fractions
- FDP
- Ratio (basic)
- Rounding & estimation
- Indices Powers & Roots
- Factors, Multiples & Primes
- 4 Rules - Decimals
- Place value & Number Properties

- Sequences
- Forming and solving inequalities
- Accuracy and estimation
- Ratio
- Direct and inverse proportion
- Bivariate data
- Bearings



YEAR 7

- Manipulating and calculating with fractions
- Prime factor decomposition
- Area of 2-D shapes
- Constructing triangles and quadrilaterals
- Angles
- Positive and negative numbers
- Factors and multiples
- Numbers and numerals

- Forming and solving equations
- Linear graphs
- Real life graphs and rate of change
- Univariate data
- Angles in polygons
- Circles and composite shapes
- Volume and surface area of prisms

- Conceptualising and comparing fractions
- Transforming 2-D figures
- Coordinates
- Classifying 2D shapes
- Expressions, equations and inequalities
- Order of operations
- Axioms and arrays