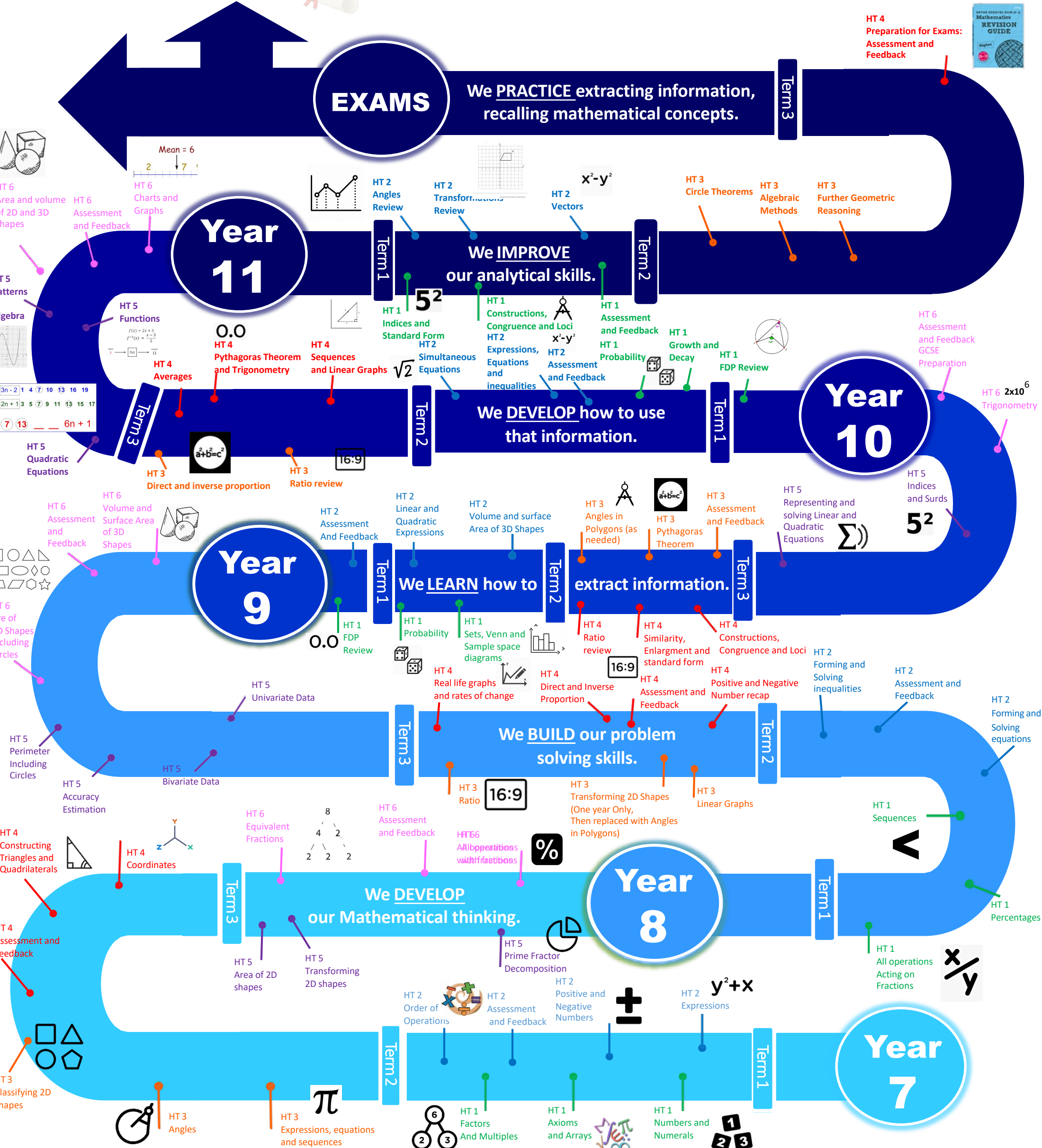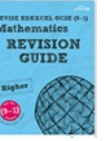# MATHS

Practice in Maths:
Homework is for practice and identifying misconceptions.

A Levels specifications:
A Level Mathematics
A Level Further Mathematics

GCSE Specifications:
Edexcel GCSE Mathematics
Foundation & Higher Tiers

Summative assessment in Maths:
3 assessments per Year in KS3
3 mock assessments in Year 10, and topic assessments
3 mock assessments in Year 11

EXAMS

We **PRACTICE** extracting information, recalling mathematical concepts.

Term 3

HT 4
Preparation for Exams: Assessment and Feedback

Year 11

HT 6 Area and volume of 2D and 3D shapes
HT 6 Assessment and Feedback
HT 6 Charts and Graphs
HT 2 Angles Review
HT 2 Transformations Review
HT 2 Vectors
$x^2 - y^2$
HT 3 Circle Theorems
HT 3 Algebraic Methods
HT 3 Further Geometric Reasoning

Term 1 — We **IMPROVE** our analytical skills. **Term 2**

HT 5 Patterns In Algebra
HT 5 Functions
HT 4 Pythagoras Theorem and Trigonometry
HT 4 Sequences and Linear Graphs
HT 4 Averages
HT 1 Indices and Standard Form
HT 2 Simultaneous Equations
HT 1 Constructions, Congruence and Loci
HT 2 Expressions, Equations and inequalities
HT 2 Assessment and Feedback
HT 1 Assessment and Feedback
HT 1 Probability
HT 1 Growth and Decay
HT 1 FDP Review

HT 5 Quadratic Equations
HT 3 Direct and inverse proportion
HT 3 Ratio review

Term 3 — We **DEVELOP** how to use that information. **Term 1**

Year 10

HT 6 Assessment and Feedback GCSE Preparation
HT 6 2×10^6 Trigonometry
HT 5 Indices and Surds
HT 5 Representing and solving Linear and Quadratic Equations

HT 6 Assessment and Feedback
HT 6 Volume and Surface Area of 3D Shapes
HT 2 Assessment And Feedback
HT 2 Linear and Quadratic Expressions
HT 2 Volume and surface Area of 3D Shapes
HT 3 Angles in Polygons (as needed)
HT 3 Pythagoras Theorem
HT 3 Assessment and Feedback

Year 9

Term 1 — We **LEARN** how to **Term 2** extract information. **Term 3**

HT 1 FDP Review
HT 1 Probability
HT 1 Sets, Venn and Sample space diagrams
HT 4 Ratio review
HT 4 Similarity, Enlargment and standard form
HT 4 Constructions, Congruence and Loci
HT 2 Forming and Solving inequalities
HT 2 Assessment and Feedback
HT 2 Forming and Solving equations

HT 6 Are of 2D Shapes Including Circles
HT 5 Univariate Data
HT 4 Real life graphs and rates of change
HT 4 Direct and Inverse Proportion
HT 4 Assessment and Feedback
HT 4 Positive and Negative Number recap

HT 5 Perimeter Including Circles
HT 5 Accuracy Estimation
HT 5 Bivariate Data
HT 3 Ratio
HT 3 Transforming 2D Shapes (One year Only, Then replaced with Angles in Polygons)
HT 3 Linear Graphs
HT 1 Sequences

Term 3 — We **BUILD** our problem solving skills. **Term 2**

HT 1 Percentages

Year 8

HT 4 Constructing Triangles and Quadrilaterals
HT 4 Coordinates
HT 6 Equivalent Fractions
HT 6 Assessment and Feedback
HT 6 All operations with fractions

HT 4 Assessment and Feedback
HT 5 Area of 2D shapes
HT 5 Transforming 2D shapes
HT 5 Prime Factor Decomposition
HT 1 All operations Acting on Fractions
$\frac{x}{y}$

Term 3 — We **DEVELOP** our Mathematical thinking. **Term 1**

HT 2 Order of Operations
HT 2 Assessment and Feedback
HT 2 Positive and Negative Numbers
HT 2 Expressions $y^2 + x$

Year 7

HT 3 Classifying 2D shapes
HT 3 Angles
HT 3 Expressions, equations and sequences
π
HT 1 Factors And Multiples
HT 1 Axioms and Arrays
HT 1 Numbers and Numerals

Term 2 — **Term 1**

Sirius ACADEMY
WHERE STARS ARE BORN!

Mean = 6