

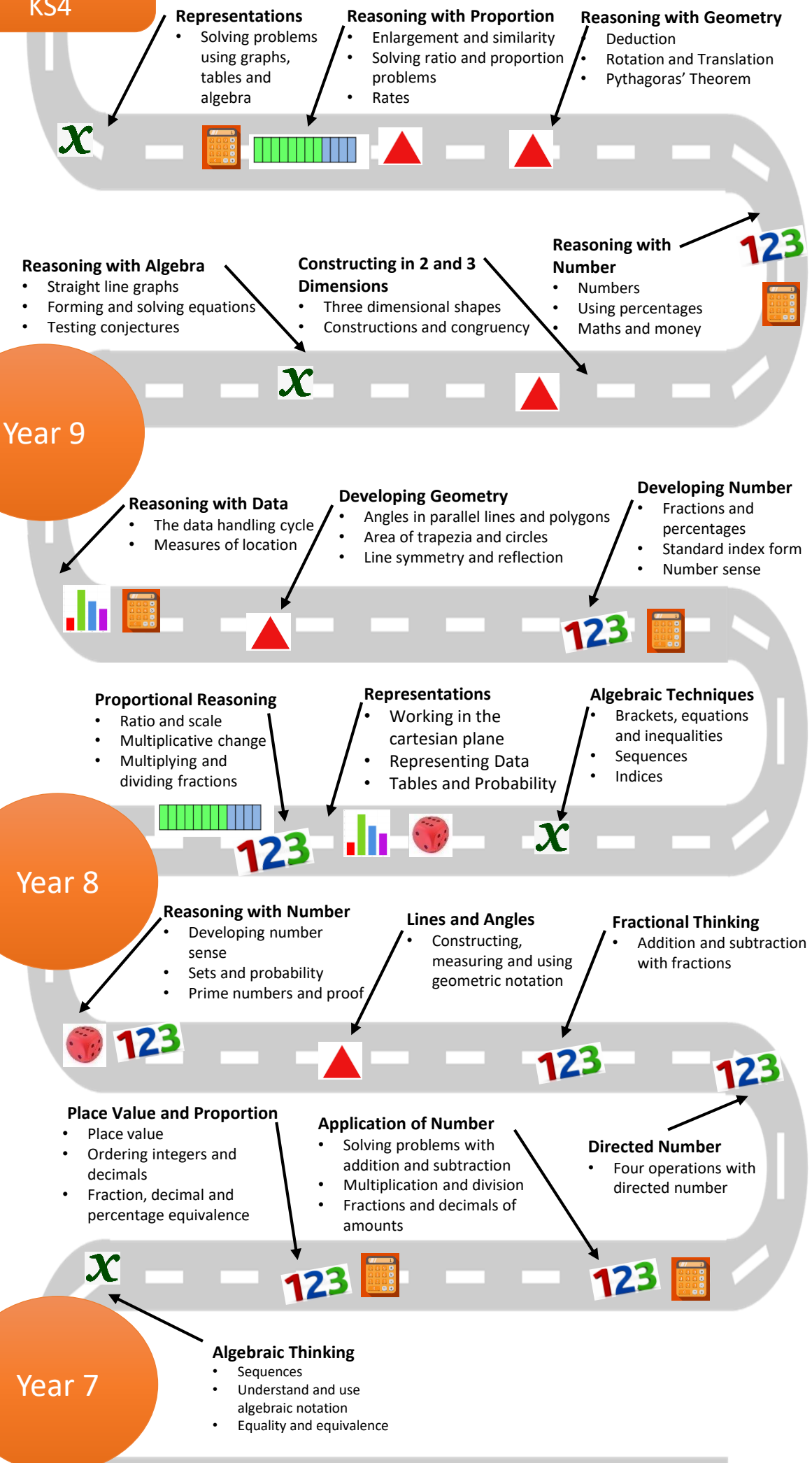


... Curriculum Road Map KS3

Your journey continues at
KS4

Careers – Architect – Geologist – Engineer – Accountant – Commodity Trader – Meteorologist – Investment Banker

Careers – Game Designer – Actuary – Medical Scientist – Mathematician – Teacher – Software Developer – GCHQ Analyst



Threshold Concepts

- Algebraic manipulation** This concept involves recognising mathematical properties and relationships using symbolic representation
- Number sense** This concept involves understanding the number system and how they are used in a wide variety of mathematical ways
- Shape facts** This concept involves recognising the names and properties of geometry shapes and angles.
- Multiplicative reasoning** This concept involves using ratio and proportion and understanding of reciprocals in real world applications
- Representing and interpreting data** This concept involves interpreting, manipulating and presenting data in various ways.
- Calculator skills** This concept involves fluent application of mathematical operations on a scientific calculator
- Understanding and calculating risk** This concept involves knowing the rules of probability in the correct context

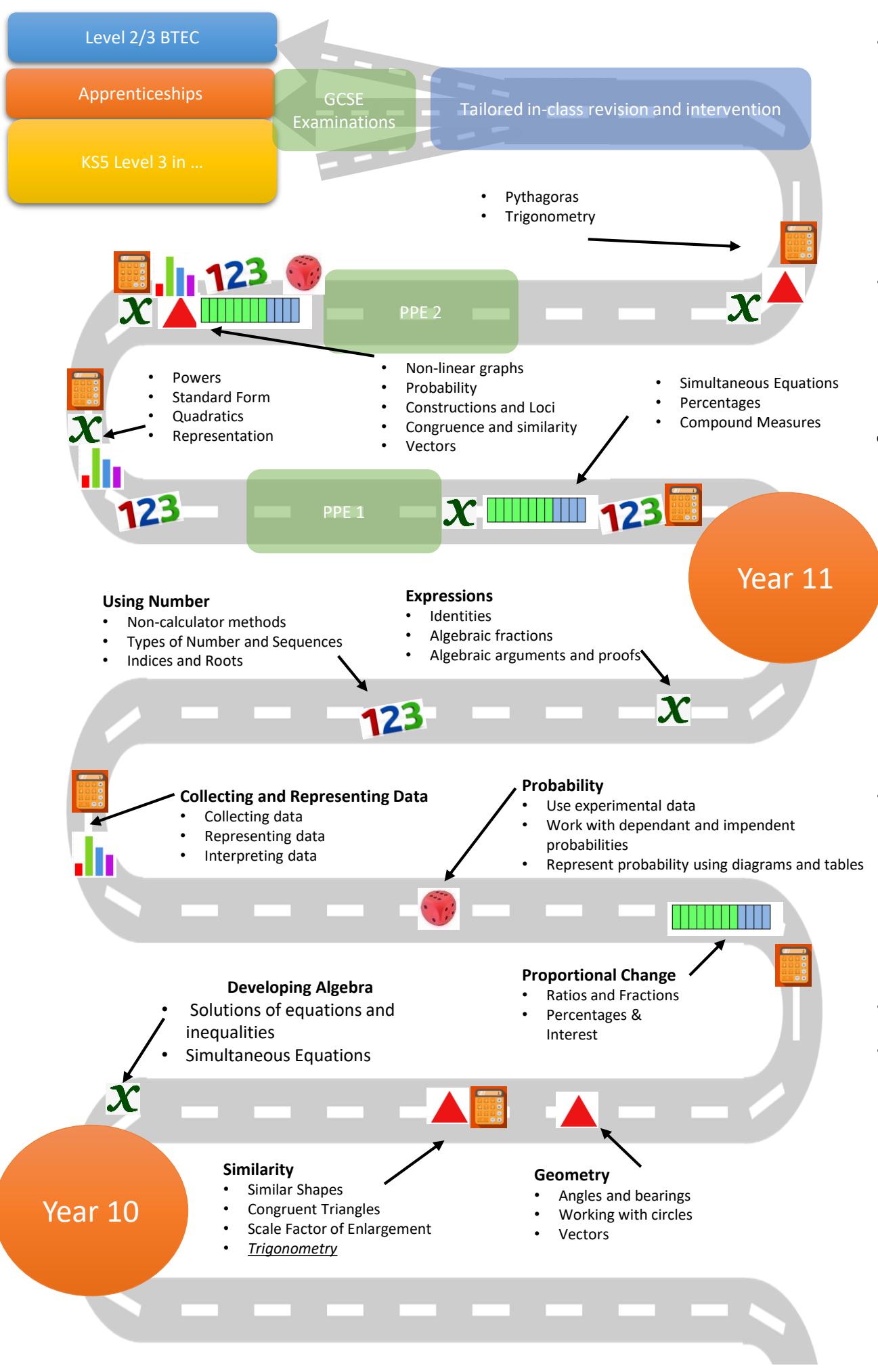


... Curriculum Road Map KS4 HIGHER PATHWAY





Careers – Architect – Geologist – Engineer – Accountant – Commodity Trader – Meteorologist – Investment Banker


Careers – Game Designer – Actuary – Medical Scientist – Mathematician – Teacher – Software Developer – GCHQ Analyst





Threshold Concepts


- Algebraic manipulation** 


This concept involves recognising mathematical properties and relationships using symbolic representation
- Number sense** 

This concept involves understanding the number system and how they are used in a wide variety of mathematical ways
- Shape facts** 

This concept involves recognising the names and properties of geometry shapes and angles.
- Multiplicative reasoning** 

This concept involves using ratio and proportion and understanding of reciprocals in real world applications
- Representing and interpreting data** 

This concept involves interpreting, manipulating and presenting data in various ways.
- Calculator skills** 

This concept involves fluent application of mathematical operations on a scientific calculator
- Understanding and calculating risk** 

This concept involves knowing the rules of probability in the correct context

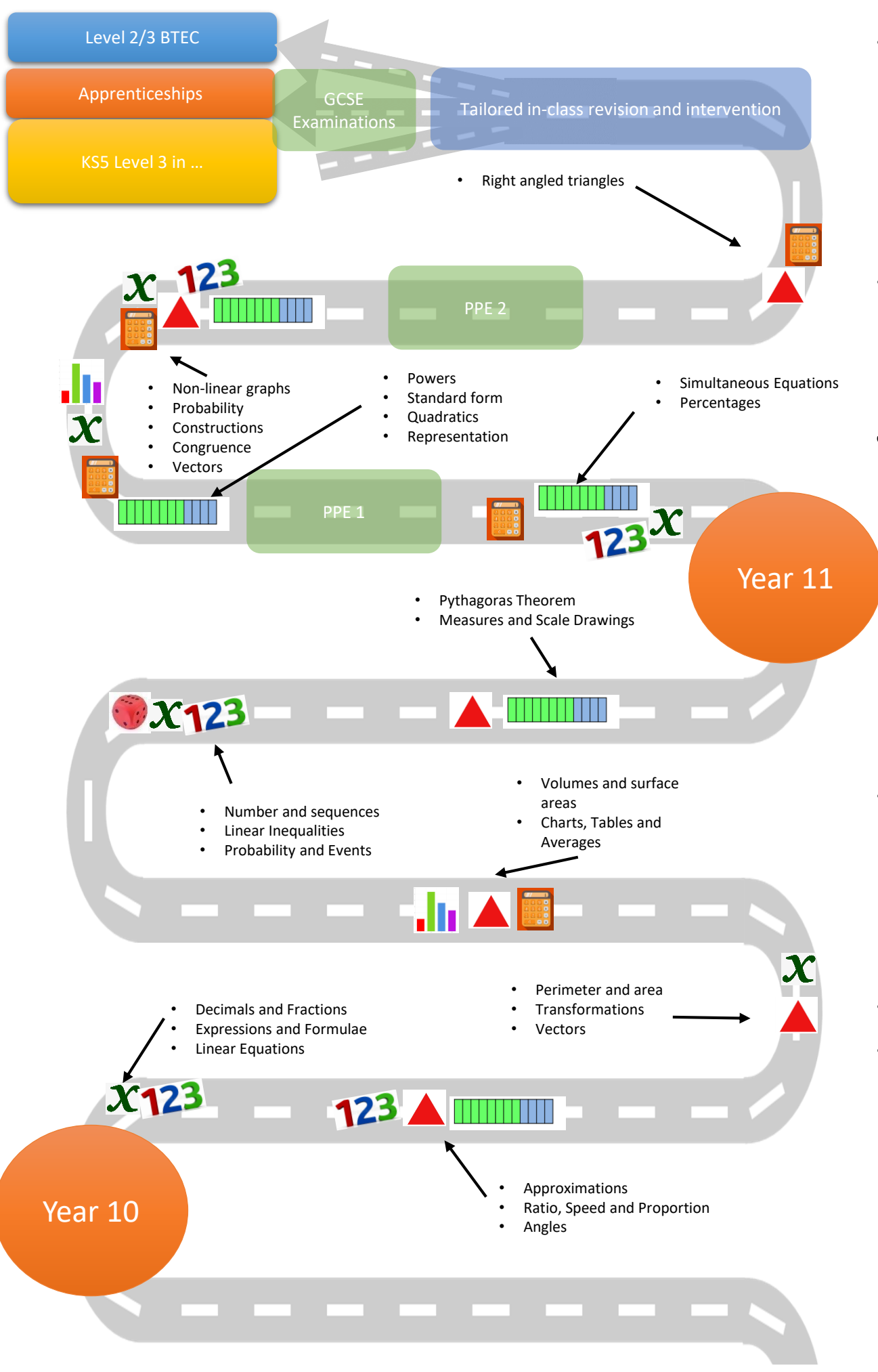


... Curriculum Road Map KS4 FOUNDATION PATHWAY





Careers – Architect – Geologist – Engineer – Accountant – Commodity Trader – Meteorologist – Investment Banker


Careers – Game Designer – Actuary – Medical Scientist – Mathematician – Teacher – Software Developer – GCHQ Analyst





Threshold Concepts


- Algebraic manipulation** 


This concept involves recognising mathematical properties and relationships using symbolic representation
- Number sense** 

This concept involves understanding the number system and how they are used in a wide variety of mathematical ways
- Shape facts** 

This concept involves recognising the names and properties of geometry shapes and angles.
- Multiplicative reasoning** 

This concept involves using ratio and proportion and understanding of reciprocals in real world applications
- Representing and interpreting data** 

This concept involves interpreting, manipulating and presenting data in various ways.
- Calculator skills** 

This concept involves fluent application of mathematical operations on a scientific calculator
- Understanding and calculating risk** 

This concept involves knowing the rules of probability in the correct context



... Curriculum Road Map KS5



Careers – Architect – Geologist – Engineer – Accountant – Commodity Trader – Meteorologist – Investment Banker

Careers – Game Designer – Actuary – Medical Scientist – Mathematician – Teacher – Software Developer – GCHQ Analyst

Your journey continues in to:

- University
- Apprentices
- Work

- Numerical Methods
- Normal distribution
- Applications of kinematics
- Applications of forces

- Integration
- Further Kinematics



- Functions and graphs
- Series and sequences
- Binomial theorem
- Trigonometry
- Regression and correlation
- Moments



- Parametric equations
- Differentiation
- Trigonometry
- Vectors (3D)
- Conditional probability
- Friction and forces



Year 13

- Kinematics 2
- Algebraic methods



- Trigonometry
- Further algebra
- Probability
- Forces and Newton's laws

- Integration
- Exponentials and logarithms
- Statistical distributions



- Differentiation
- Data presentation and interpretation

- Quadratics
- Equations
- Inequalities
- Graphs
- Circles



- Trigonometric ratios
- Further algebra
- Vectors
- Sampling
- Units in mechanics
- Constant acceleration

Year 12

Threshold Concepts

Algebraic manipulation

This concept involves recognising mathematical properties and relationships using symbolic representation

Number sense

This concept involves understanding the number system and how they are used in a wide variety of mathematical ways

Shape facts

This concept involves recognising the names and properties of geometry shapes and angles.

Multiplicative reasoning

This concept involves using ratio and proportion and understanding of reciprocals in real world applications

Representing and interpreting data

This concept involves interpreting, manipulating and presenting data in various ways.

Calculator skills

This concept involves fluent application of mathematical operations on a scientific calculator

Understanding and calculating risk

This concept involves knowing the rules of probability in the correct context