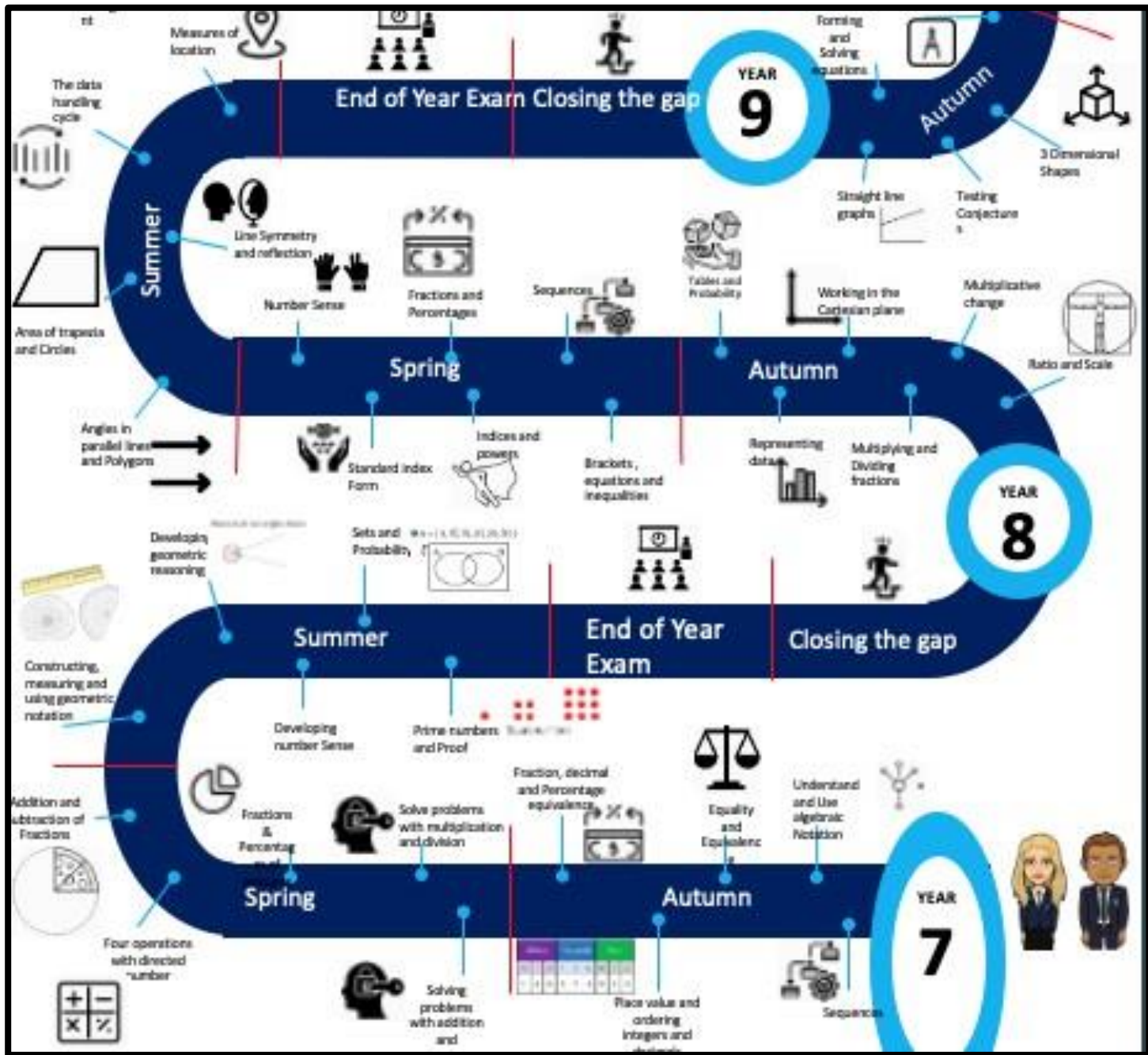
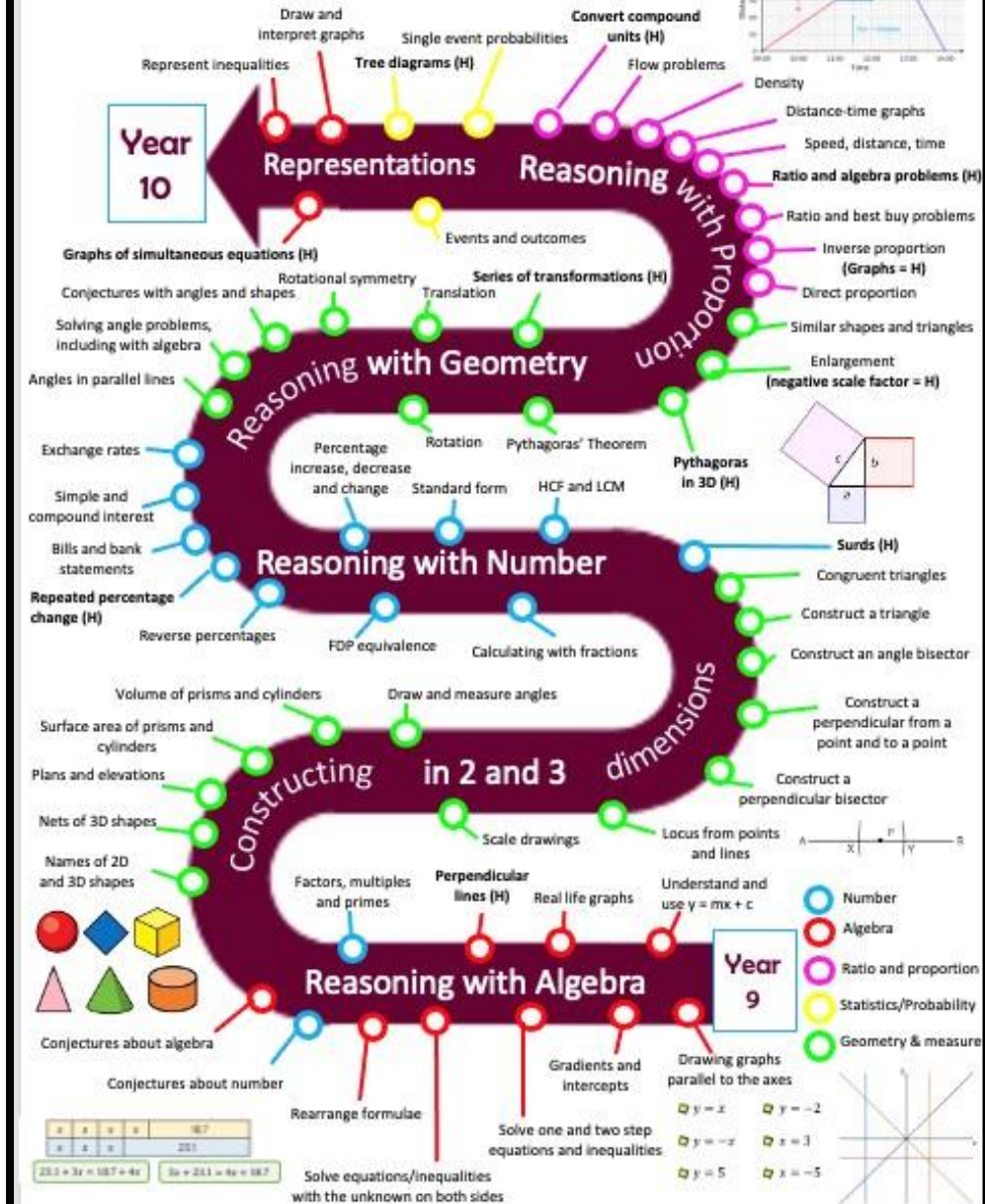


# KS3 MATHEMATICS



# YEAR 9 MATHS LEARNING JOURNEY





## Knowledge from year 8 feeds into year 9



- Multiply and divide fractions
- Directed numbers
- Calculate fractions, decimals and percentages of an amount
- Convert FDP
- Percentage increase and decrease
- Percentage change
- Reverse percentages
- Rounding and estimating
- Standard form
- Converting units

- Co-ordinates
- Straight line graphs
- Form expressions
- Expand brackets
- Factorise
- Solve equations and inequalities
- Generate sequences
- Index laws

- Simplify and use ratio notation
- Share into a ratio
- Direct proportion
- Similar shapes
- Conversion graphs
- Scale drawings and maps

- Scatter graphs
- Frequency tables
- Sample space diagrams
- Venn diagrams
- Two-way tables
- Probabilities
- Questionnaires
- Bar charts, line charts and pictograms
- Pie charts
- The range
- Mean, median and mode
- Averages from a frequency table

- Angles in parallel lines
- Constructing triangles and quadrilaterals
- Interior and exterior angles
- Areas of triangles, rectangles, parallelograms, trapeziums
- Reflection
- Area of circles and sectors
- Area and perimeter of compound shapes