

## Year 11 'Walk Talk' Mock Exam 2019

### Higher Paper 1 – Non calculator

- Multiplying fractions
- Speed, distance, time
- Simplifying ratio
- Compound growth/repeated percentage change
- Changing the subject of a formula
- Factorising
- Averages
- Finding ratios given 2 ratios
- Using ratios to find amounts
- Interior and exterior angles of polygons
- Stratified sampling
- Solving linear equations and inequalities
- Vectors
- Reverse percentages
- Recurring decimals
- Product rule for counting outcomes
- Simplifying surds
- Rationalising the denominator
- Index Laws
- Circle theorems
- Simplifying algebraic fractions
- Expanding 3 brackets
- Venn diagrams
- Sketching quadratics using completing the square
- Forming and solving equations
- Area of triangles: including trig formula
- Pythagoras
- Exact trig values
- Algebraic proof

## Higher Paper 2 – Calculator

- Standard Form
- Scale
- Ratio in the form 1:n
- Loci
- Scatter Graphs
- Interpreting pie charts
- Fractions to ratios
- Gradient of a line segment
- Equation of a straight line
- Equations of parallel lines
- Sample space diagrams
- Sketching quadratics
- Solving equations graphically
- Mass, density, volume
- Enlargement
- Similarity
- Drawing and interpreting histograms
- Calculations with bounds
- Inverse proportion
- Circle theorems
- Functions, including inverse and composite functions
- Sketching trigonometric graphs
- Solving equations using trig graphs
- Index laws
- Adding algebraic fractions
- 3D Pythagoras
- Trigonometry in 3D