Maths Learning Journey Map

Year 11 Foundation

SKILS DEVELOPED

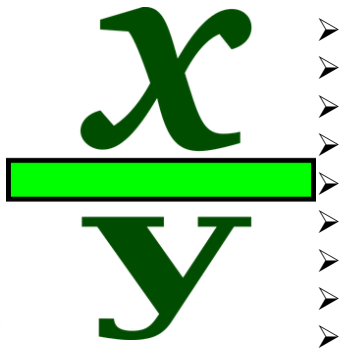
Year 11 Survival Top Tips	
Tip 1	Try questions from the math's book
Tip 2	Read through the instructions in the book and your notes copy
Tip 3	Attempt exam questions
Tip 4	Time yourself doing questions
Tip 5	Redo questions from an exam that were incorrect

GCSE Results Day

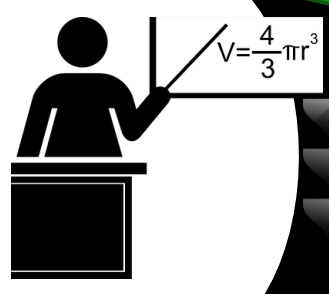
Start A Level's

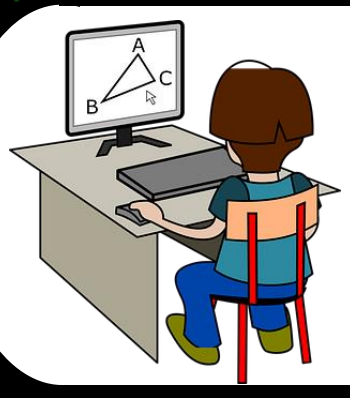
Go to College

- Interpret simple functions with inputs and outputs
- Use function machines in reverse direction
- Apply successive functions
- Define sequences as functions machine operations
- Use table of values to plot linear/quadratic functions
- use table of values space plot cubic graphs
- Understand vector addition, subtraction and scalar multiplication
- Use column vectors and draw them

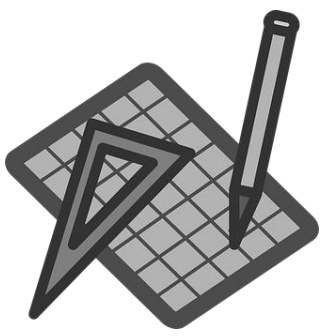


- Reflections
- Rotations
- Translations and column vectors
- Enlargements
- Identify centres of enlargements and scale factors
- Use fractional scale factors
- Sketching quadratic functions
- Find the roots of a quadratic equation algebraically
- Sketch quadratic graphs

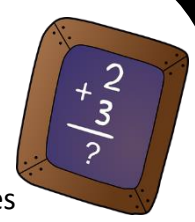


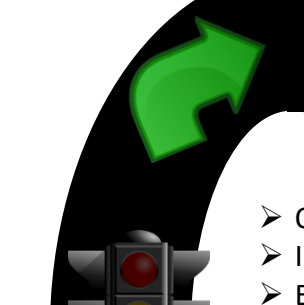


- y=mx+c and links to parallel and perpendicular lines
- Find the equation of a line joining two points or one point and a gradient
- Find gradient and y intercept of a straight line
- Revision of area of rectilinear shapes and those drawn on coordinate grids
- Find the distance between two points
- Use Pythagoras to find perimeter of shapes draw on a graph
- Find gradients in various contexts such as conversion graphs and rates of change
- Find the velocity on a distance time graph
- Construct and interpret graphs in real life context

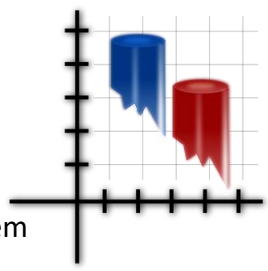


- generate simple sequence given a nth term rule
- Find the nth term rule for linear sequences
- Find the formula for a sequence generated from a diagram or word problem
- Identify and find rule for simple quadratic sequences
- Recognise special sequences such as triangle, square and cube numbers and the Fibonacci sequence





- Order of operations
- Inverse operations
- Estimation
- Revise circles
- Revise angles
- Revise use of Pythagoras theorem
- Trigonometry



- Use the probability scale and equally likely outcomes
- Relative frequency
- Expected outcomes
- Sample space and listing outcomes
- Venn diagrams
- Two way tables to find probabilities
- Use addition and multiplication law for probability
- Draw and use tree diagrams

CURRICULUM OVERVIEW

SKILLS TAUGHT ACROSS ___MATHS_____

1) **Reading skills**
2) **Using calculators effectively**
3) **Resilience**
4) **Communication skills**
5) **Problem-solving skills**

welcome

CURRICULUM OVERVIEW