BHS MATHS LEARNING JOURNEY

Pearson Edexcel Maths & Statistics

Understanding and Applying Mathematics

Year 7 → Year 13

- Understanding variables
- Using BIDMAS to carry out calculations
- Solving more complex equations
- Applying maths to problem solving
- A Level: critical Analysis
- A level: maths for personal finance
- Using formulae to calculate area and perimeter
- Understanding how ratios can be used in everyday life
- Using data
- Understanding the relevance of maths to everyday life
- Solving real life problems using Geometry
- 3D problem solving
- A Level: analysis of data

YEAR 11

Final GCSE exams

Revision

Lots of revisiting

PPE 2

H= Functions, Iteration & circle equation
F= Chapter Revision & past papers

- Equation of a circle
- Iteration
- Functions

Intermediate Maths Challenge

PPE 1

H= Higher Trig & Vectors
F= Chapter Revision

- Vectors
- Advanced Trig Sine Area
- Revisit Trig

GCSE Statistics Topics for Higher Students

YEAR 10

Algebra & Averages

- Averages
- Expanding & factorising
- Recap laws of indices

Graphs & Proportion

- Statistical Diagrams
- Recap linear & quadratic graphs
- Revisit Ratio
- Quadratic graphs
- Algebraic direct/indirect proportion
- Revisit area & volume

Algebra & Circle Theorem

- Quadratic factorisation
- Rearrange algebra, plans & elevations
- Pythag & trig
- Quadratic formula & factorising
- Circle theorem & sequences

Intermediate Maths Challenge

Recap term/ GCSE Stats (H)

- Volume & surface area
- Number & fractions

YEAR 9

Pythag, Trig & Probability

- Percentages
- Inequalities
- Probability
- 3D shapes and nets
- Algebraic simultaneous equations
- Pythagoras & trigonometry
- Probability & tree diagrams
- Congruence & similar shapes

Transformations, Surds & Graphs

- Sequences & nth Term
- DP & Sig Fig Recap
- Transformations
- Y=mx+c, parallel & perpendicular
- Transformations
- Quadratic graphs & simultaneous
- Bounds & Surds

Intermediate Maths Challenge

Algebra, Angles & Construction

- Area & circumference of a circle
- Probability & Venn diagrams
- Percentages, interest & multipliers
- Prime factors, HCF & LCM
- Angles & bearings
- Complex Indices Rules
- Loci & construction
- **Science ready:** substitution & rearranging

Science ready: standard form

Supported Pathway

YEAR 8

Percentages/ Inequalities

- Force, speed & density
- Plans & elevations
- Linear Graphs & y=mx+c
- Conversion graphs & Speed
- Angles in polygons

Junior Maths Challenge

- Volume of 3D shapes
- Volume & shape project

Graphs/Polygons

Circles, Volume & Probability

Algebra & Statistics

- Statistical Diagrams
- Indices, brackets & substitution
- Ratio
- Coordinates in 4 quadrants
- Addition, subtraction, multiplication & division of fractions
- Addition, subtraction, multiplication & division of decimals
- Directed Numbers & Intro to algebra
- Rounding & place value
- Data & Averages
- Time & timetables

Junior Maths Challenge

Fractions, Area& Shape

- Symmetry & tessellation
- 2D shapes, area & perimeter
- Factors, multiples, primes, HCF & LCM
- Angles & Bearings
- Rounding with DP & Sig Fig
- Addition, subtraction, multiplication & division of integers
- Calculator activities & BIDMAS

Number & Angles

YEAR 7

Year 6 *Transition* Day

Maths Kitchen

BE COURAGEOUS BE COMMITTED BE COMPASSIONATE