The Year 11 Curriculum

UP HOLLAND HIGH SCHOOL
Dedicated to Excellence

Exam revision

End of Term

Exam analysis and revision

Mock Exams 2

Even = 2n
Odd = 2n + 1

Algebraic proof with consecutive numbers

Express odd and even numbers using algebra

Solve quadratic equations using algebraic fractions

Algebraic proof with expanding brackets

Solve linear equations using algebraic fractions

$$\frac{x^2 + 5x + 4}{x^2 + 8x + 16}$$

Simplify algebraic fractions – adding and subtracting

Simplify algebraic fractions – factorising

Algebraic Reasoning – Solving Algebraic Fractions and Proof

Simplify algebraic fractions – using laws of indices

Simplify algebraic fractions – multiplying and dividing

Interpret direct and inverse proportion graphs

Recognise direct and inverse proportion graphs

Area under a curve

Kinematics formula

Piece-wise graphs

Use graphs to approximate solutions

Real-life straight-line graphs

Reflect in given line

Speed-time graphs

Using Graphs, Transforming and Constructing

Half Term

Tree diagrams for conditional probabilities

Tree diagrams and independent events

Distance-time graphs

Conversion graphs

Venn diagrams and two-way tables for conditional probabilities

Tree diagrams for dependent events

Calculate probabilities of independent events

Probabilities from tables, Venn diagrams and frequency trees

Sample space diagrams

Graphs of quadratic functions

Exact trig values

Working with fractions and decimals

End of term

Probability

Experimental probabilities

Equally likely outcomes

Inverse functions

Functions

Quadratic inequalities

Work with graphs of trig functions

Composite functions

$$\frac{4x - 6}{5} = 2$$

Use function notation

Use function machines

Change the subject where unknown appears more than once

Change the subject of a formula

Solve equations and inequalities

Changing the Subject

Mock Exams 1

Substitute into expressions and formulae

$$x_{n+1} = \sqrt[3]{3 - x_n}$$

Solve equations by iteration

Change the subject of complex formula

Form and solve equations and inequalities with shape

Half Term

Criticise graphs

Averages from a list and table

Stem and leaf diagrams

Compare distributions

Revision

Two-way tables

Collecting, Representing and Interpreting Data

Frequency tables and polygons

Bar charts and pie charts

Construct and interpret histograms

Time-series graphs

Cumulative frequency diagrams and box plots

Scatter diagrams and line of best fit

Stratified sample

Types of data

Graphs of circles

Graphical quadratic simultaneous equations

Complete the square

Recognise and transform graphs

Plot and read quadratic graphs

Populations and samples

Non-Linear Graphs

Year 11

Exponential graphs

Graph quadratic inequalities

Identify roots and intercepts

Plot and read cubic and reciprocal graphs