The Year 7 Curriculum: Mathematics

UP HOLLAND HIGH SCHOOL
Dedicated to Excellence

Pre-Assessment Test MRI

Problem Solving Real Life Problems

Forming and Solving 1 Step Equations

Substitution

Write Expressions from Statements

Write and Simplify Expressions

Laws of Operations with Algebra

Half Term

Expressions and Equations

Solving Equations with Unknowns Both Sides

Solving Equations with Brackets

Forming and Solving 2 Step Equations

Identify an Equation

Expand Brackets

Simplify using Four Operations

Application of Real Life Problems

Writing Expressions

Estimation

Using a Calculator

Using one calculating to find another

Application Skills

Division of Decimals by Whole Numbers

Application Skills

Identifying the Number of Decimal Places

1/10 (tenths)
1/100 (hundredths)
1/1000 (thousandths)

Multiplying and Dividing Decimals

Multiplying by Whole Numbers

Multiplying two Decimals

Multiplying numbers between 0 and 1

Multiplying 3 numbers, with Mixed Operations

Division by Decimals

Dividing by numbers between 0 and 1

Understanding Recurring Decimals

0.333... = 0.3̇

Half Term

Probability

Likeliness of Events

Finding possible outcomes

Using Probability to assess fairness

Impossible
Unlikely
Even Chance
Likely
Certain
0
1
1-in-6 Chance
4-in-5 Chance

Understanding Probability Terms

Geometry

Constructing Parallel Lines

Identifying Parallel Lines

Identifying Perpendicular Lines

Linking Properties of Parallel and Perpendicular Lines

Drawing and Constructing Perpendicular Lines

Pre-Assessment Test MRI

Draw/Label Axes Plot Points

Identify Patterns and Draw Conclusions

Half Term

Line Graphs

Interpret and Compare Line Graphs

Interpret Gradients

Spotting Trends and Patterns

Reading Line Graphs

Number Operations and Decimals

Expressing a Measurement

Measuring Using Decimals

Comparing Decimals

Rounding Decimals

Changing and Comparing Metric Units

Applied Decimal Questions

Calculations with Fraction Decimal Equivalents

Equivalent Fractions and Decimals

Decimals in Real Life

Reading and Writing Decimals

Properties of Decimals

Multiplying and Dividing (10, 100, 1000)

Adding and Subtracting Decimals

Half Term

Four Operations

Calculating Efficiently

BIDMAS and Function Machines

BIDMAS using representations

Proportional Reasoning:
- Calculating value of 1
- Compare Unitary Values
- Representations

Solving Angle Problems

Solving Worded Problems using BIDMAS

Write, Interpret, Compare using BIDMAS

BIDMAS

Classifying Angles

Calculating Angles

Using a Protractor

Labelling Angles ∠BAC ∠CAB

Identifying and Marking Angles

Drawing Circles

Properties of Circles

Geometry 1

Comparing fractions from written statements

Compare and order Unit fractions

Compare and order fractions (common numerators)

Find equivalent fractions

Add and Subtract Fractions (common denominators)

Half Term

Comparing Fractions

Comparing fractions using representations

Comparing fractions (common denominators)

Write measurements as a fraction of another

Solve addition and subtraction problems (common denominators)

Converting Units of Area km² cm²

Converting Units of Capacity

Multiply by 10, 100, 1000

Rounding and Estimating (10, 100, 1000)

Read/Write Large Numbers Place Value

Calculating Area

Converting Units of Length

Calculating Perimeter (Rectangles)

Converting Units of Weight/Mass

Upper and Lower Bounds (10, 100, 1000)

Compare Large Numbers

Numbers and Quantities

Year 7