

EAL Newman Catholic College learning Journey

GCSE Maths

Key: 3|1 means 31

Stem	Leaf
1	5 7 8
2	8 7 8
3	2 2 8 8
4	8 8 8
5	8

Use averages in stem and leaf diagrams

Solve equations

HCF and LCM

Calculate % increase and decrease

Convert between metric units

Calculate missing angles/ angle rules and types of triangles

Manage money (bills, budgets)

Calculate % of numbers

Introduction to probability

Draw line graphs

Use algebraic substitution

Calculate area and circumference of circles

Ratio and proportion

Draw and interpret pie charts

Convert between %, decimals and fractions

Volume of 3D shapes

4 operations with fractions

Introduction to ratio

Factors, multiples and primes

Word problems with decimals

Metric and imperial units of measure

Negative numbers

3 : 6
1 : 2

Introduction to Algebra

Angle rules and missing angles

Calculate angles in 90°, 180°, 360°

Solve 2-step word problems

Order and calculate decimals

Equivalent fractions to half, one quarter and three quarters

Find a fraction of number

Calculate units of measurement

Calculate averages

4 operations word problems

Rounding to the nearest whole no. and decimal places

Area and perimeter of simple and compound shapes

Solve time problems

Reflections

Symmetry

Draw and measure angles

Drawing and reading graphs

Perimeter of irregular shapes

Calculate units of measure

Calculate fractions

Read and calculate intervals of time

Recognise types of lines and basic angles

Compass points

Construct and interpret simple charts

Halving and doubling

Use a written method for the 4 operations

Round to the nearest 10, 100, 1000

Read and plot coordinates

Identify the properties of 3D shapes

Use positional vocabulary

Use the coordinates (1st quadrant)

Solve problems based on statistical information

Understand and use place value

BODMAS

Area and perimeter of rectangles

Read and compare temperatures including negatives

Use the calendar

Calculate with money, work out the change

Shade/ identify fractions of shapes

Add and subtract using 3 digit numbers

Use multiples of 5, 10 and 50

Identify odd and even numbers.

Edexcel Maths

Calculate averages

Introduction to Algebra

Angle rules and missing angles

Calculate angles in 90°, 180°, 360°

Solve 2-step word problems

Order and calculate decimals

Equivalent fractions to half, one quarter and three quarters

Find a fraction of number

Calculate units of measurement

Calculate fractions

Read and calculate intervals of time

Recognise types of lines and basic angles

Compass points

Construct and interpret simple charts

Halving and doubling

Use a written method for the 4 operations

Round to the nearest 10, 100, 1000

Read and plot coordinates

Identify the properties of 3D shapes

Use positional vocabulary

Use the coordinates (1st quadrant)

Solve problems based on statistical information

Understand and use place value

BODMAS

Area and perimeter of rectangles

Read and compare temperatures including negatives

Use the calendar

Calculate with money, work out the change

Shade/ identify fractions of shapes

Add and subtract using 3 digit numbers

Use multiples of 5, 10 and 50

Identify odd and even numbers.

KS3 Pathway 8P

Measure in mm, cm, g, kg, ml and l

Order familiar events

Tell the time with 12- and 24-hour clocks

Calculate fractions

Multiply and divide a 2 digit number by a single digit number

Sum, total and difference

Complete simple sequences

Recognise and name common 3D shapes

Compare lengths/ heights

Know the value of coins and notes

Read/show time: hour & half past

Construct simple pictograms, tally chart & bar graphs

Simple problems +, -, x

One step problems in multiplication and division

Recognise and name shapes

Identify, name whole, half/three quarter

Describe mass, weight, capacity, volume.

Use language dates, week, month, year

Right angle

Timetables up to 10

Missing number in +/ -

Number bonds

Read/write numbers 1-100 numerals.

Identify one more/ less.

Forward/backwards

Place Value ordering and rounding

One step +/ - problems

Add/subtract three digits numbers.

Addition (+), subtraction (-) and equals (=) signs

Use of language most/ least.

Count multiples of twos, fives and tens.

Count to and across 100.

ELC Maths

8Q1 & 2