

# Hogarth Academy Mathematics Curriculum

## Year 6 2022/2023

\*As Year 6 move closer to SATS, there may be other units/places you want filled.  
Please complete this in the back of the books.

| Week                            | Day       | Learning Objective   |
|---------------------------------|-----------|--|
| <b>1</b><br><br><b>Autumn 1</b> | Monday    | Summer Holidays  |
|                                 | Tuesday   | Pre-assessment (Number: Place Value)   |
|                                 | Wednesday | <b>Assessment (2022)</b>   |
|                                 | Thursday  | <b>Assessment (2022)</b>   |
|                                 | Friday    | I am learning to identify the value of each digit in numbers to 10 million.                |
| <b>2</b><br><br><b>Autumn 1</b> | Monday    | I am learning to read and write numbers to 10 million.                                     |
|                                 | Tuesday   | I am learning to compare numbers to 10 million.  |
|                                 | Wednesday | I am learning to order numbers to 10 million (also using number lines)                     |
|                                 | Thursday  | I am learning to round within 10 million.  |
|                                 | Friday    | I am learning to use negative numbers on a vertical and horizontal number line in context. |
| <b>3</b><br><br><b>Autumn 1</b> | Monday    | I am learning to solve number and practical problems involving place value to 10 million.  |
|                                 | Tuesday   | Post assessment (Number: Place Value)  |
|                                 | Wednesday | Pre-Assessment (4 operations)  |
|                                 | Thursday  | I am learning to add/subtract integers with any number of digits using formal methods.     |
|                                 | Friday    | I am learning to use/identify common factors.  |
| <b>4</b><br><br><b>Autumn 1</b> | Monday    | I am learning how to identify prime, cube and square numbers.                              |
|                                 | Tuesday   | I am learning to multiply multi-digit numbers using formal method.                         |
|                                 | Wednesday | I am learning to solve multi-step problems involving formal multiplication.                |
|                                 | Thursday  | I am learning to divide 4 digit numbers by 1 and 2 digit numbers (Formal)                  |
|                                 | Friday    | Arithmetic (I am learning to develop my knowledge of mental methods)                       |
|                                 | Monday    | <b>Assessment (2022)</b>   |

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|-------------------|-----------|---|
| 5<br><br>Autumn 1 | Tuesday   | Assessment (2022)   |
|                   | Wednesday | I am learning to use long division (expanded method with multiples shown, without remainders) |
|                   | Thursday  | I am learning to use long division with remainders.   |
|                   | Friday    | I am learning to solve multi-step problems involving division                                 |
| 6<br><br>Autumn 1 | Monday    | I am learning to solve problems in order of operations.                                       |
|                   | Tuesday   | I am learning to perform mental calculations and use estimation to check answers.             |
|                   | Wednesday | I am learning to solve a variety of problems using my knowledge of the 4 operations.          |
|                   | Thursday  | Post assessment (4 Operations)  |
|                   | Friday    | Arithmetic (I am learning to develop my knowledge of mental methods)                          |

| Week              | Day       | Learning Objective  |
|-------------------|-----------|---|
| 1<br><br>Autumn 2 | Monday    | Inset Day   |
|                   | Tuesday   | Pre-assessment (Fractions)  |
|                   | Wednesday | I am learning to use common factors to simplify fractions.                  |
|                   | Thursday  | I am learning to order equivalent fractions (including on a number line).   |
|                   | Friday    | I am learning to compare fractions.   |
| 2<br><br>Autumn 2 | Monday    | I am learning to order fractions (including on a number line)               |
|                   | Tuesday   | I am learning to add fractions with different denominators.                 |
|                   | Wednesday | I am learning to subtraction fractions with different denominators.         |
|                   | Thursday  | I am learning to add and subtract any 2 fractions.                          |
|                   | Friday    | I am learning to add mixed numbers.   |
| 3<br><br>Autumn 2 | Monday    | I am learning to subtract mixed numbers.                                    |
|                   | Tuesday   | I am learning to solve multi-step problems involving fractions.             |
|                   | Wednesday | Post assessment (Fractions)   |
|                   | Thursday  | I am learning to multiply fractions by integers (proper and mixed numbers). |
|                   | Friday    | I am learning to multiply fractions by fractions.                           |
| 4<br><br>Autumn 2 | Monday    | I am learning to divide a fraction by an integer.                           |
|                   | Tuesday   | I am learning to divide any fraction by an integer.                         |
|                   | Wednesday | I am learning to solve fractions problems with all 4 operations.            |
|                   | Thursday  | I am learning to find fractions of amounts.                                 |
|                   | Friday    | I am learning to find the whole using fractions of amounts.                 |
| 5<br><br>Autumn 2 | Monday    | Assessment (2022)   |
|                   | Tuesday   | Assessment (2022)   |
|                   | Wednesday | I am learning to solve problems involving fractions.                        |
|                   | Thursday  | Post assessment (Fractions)   |
|                   | Friday    | Pre-assessment (Converting units)   |

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|----------------------------------|-----------|---|
| <div>6</div> <div>Autumn 2</div> | Monday    | I am learning to recognise, read and write all metric measures for length, mass and capacity using decimal notation up to 3 places. |
|                                  | Tuesday   | I am learning to convert between metric measures of length, capacity and mass.  |
|                                  | Wednesday | I am learning to solve problems involving calculation of metric measurements.   |
|                                  | Thursday  | I am learning to convert between miles and kilometres.  |
|                                  | Friday    | I am learning to convert between imperial units.  |
| <div>7</div> <div>Autumn 2</div> | Monday    | I am learning to solve problems involving a variety of measurement.   |
|                                  | Tuesday   | Post assessment (Converting units)  |
|                                  | Wednesday | Pre-assessment (Ratio)  |
|                                  | Thursday  | Christmas Holidays  |
|                                  | Friday    | Christmas Holidays  |

| Week          | Day       | Learning Objective   |
|---------------|-----------|--|
| 1<br>Spring 1 | Monday    | Christmas Holidays   |
|               | Tuesday   | Christmas Holidays   |
|               | Wednesday | Christmas Holidays   |
|               | Thursday  | I am learning to use ratio language.   |
|               | Friday    | Arithmetic (I am learning to develop my knowledge of mental methods)                                 |
| 2<br>Spring 1 | Monday    | I am learning to relate fractions and ratio and compare these.                                       |
|               | Tuesday   | I am learning to calculate ratio.  |
|               | Wednesday | I am learning to solve problems involving similar shapes where the scale factor is known or unknown. |
|               | Thursday  | I am learning to calculate scale factors.  |
|               | Friday    | Post assessment (Ratio)  |
| 3<br>Spring 1 | Monday    | Pre-assessment (Algebra)   |
|               | Tuesday   | I am learning to use 1 and 2-step function machines.   |
|               | Wednesday | I am learning to write expressions.  |
|               | Thursday  | I am learning to represent variables and unknowns using symbols and letters.                         |
|               | Friday    | I am learning to generate and describe linear number sentences.                                      |
| 4<br>Spring 1 | Monday    | I am learning to use simple formulae.  |
|               | Tuesday   | I am learning to find pairs of numbers that satisfy an equation with 2 unknowns.                     |
|               | Wednesday | I am learning to enumerate possibilities of combinations of 2 variables.                             |
|               | Thursday  | I am learning to solve problems involving algebra.   |
|               | Friday    | Post-assessment (Algebra)  |

| Week              | Day       | Learning Objective  |
|-------------------|-----------|---|
| 5<br><br>Spring 1 | Monday    | Assessment (2022)   |
|                   | Tuesday   | Assessment (2022)   |
|                   | Wednesday | Pre-assessment (Decimals)   |
|                   | Thursday  | I am learning to identify the value of each digit in a number to 3DP.   |
|                   | Friday    | I am learning to multiply and divide by 10, 100 and 1000.   |
| 6<br><br>Spring 1 | Monday    | I am learning to multiply numbers with up to 2DP by integers.   |
|                   | Tuesday   | I am learning to use written division methods to divide a decimal by an integer in cases where the answer has up to 2 DP. |
|                   | Wednesday | I am learning to convert decimals to fractions and give the answer in it's simplest form.                                 |
|                   | Thursday  | I am learning to convert fractions to decimals.   |
|                   | Friday    | Post assessment (Decimals)  |

| Week              | Day       | Learning Objective  |
|-------------------|-----------|---|
| 1<br><br>Spring 2 | Monday    | Pre-assessment (Percentages)  |
|                   | Tuesday   | I am learning to convert fractions to its percentage equivalent.  |
|                   | Wednesday | I am learning to find equivalent fractions, decimals and percentages.                                       |
|                   | Thursday  | I am learning to order fractions, decimals and percentages.   |
|                   | Friday    | I am learning to find percentages of amounts.   |
| 2<br><br>Spring 2 | Monday    | I am learning to find percentages of amounts.   |
|                   | Tuesday   | I am learning to find a missing whole or missing percentage.  |
|                   | Wednesday | I am learning to solve problems involving fractions, decimals and percentages.                              |
|                   | Thursday  | Post assessment (Percentages including FDP)   |
|                   | Friday    | Arithmetic (I am learning to develop my knowledge of mental methods)  |
| 3<br><br>Spring 2 | Monday    | Pre-assessment (Area, perimeter and volume)   |
|                   | Tuesday   | I am learning to find and draw rectangles with the same area.   |
|                   | Wednesday | I am learning to calculate the area and perimeter of a rectilinear shape.                                   |
|                   | Thursday  | I am learning to calculate the area of a triangle.  |
|                   | Friday    | I am learning to calculate the area of a triangle (including the use of rectangles)                         |
| 4<br><br>Spring 2 | Monday    | I am learning to calculate the area of a parallelogram.   |
|                   | Tuesday   | I am learning to calculate the area of a parallelogram.   |
|                   | Wednesday | I am learning to calculate volume (using cubes)   |
|                   | Thursday  | I am learning to calculate volume (using cuboids)   |
|                   | Friday    | Post assessment (Area, perimeter and volume)  |
| 5<br><br>Spring 2 | Monday    | SAT Assessment (2022)   |
|                   | Tuesday   | SAT Assessment (2022)   |
|                   | Wednesday | Pre-assessment (Statistics)   |
|                   | Thursday  | I am learning to interpret and construct line graphs.   |
|                   | Friday    | I am learning to illustrate and name parts of circles (radius, diameter – twice the radius, circumference). |

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| 6<br><br>Spring 2 | Monday    | I am learning to interpret pie charts.   |
|                   | Tuesday   | I am learning to interpret pie charts using angles, fractions and percentages. |
|                   | Wednesday | I am learning to draw pie charts.  |
|                   | Thursday  | I am learning to calculate and interpret the mean as an average.               |
|                   | Friday    | Post-assessment (statistics)   |



| Week              | Day       | Learning Objective  |
|-------------------|-----------|---|
| 1<br><br>Summer 1 | Monday    | Pre-assessment (Shape)  |
|                   | Tuesday   | I am learning to measure using a protractor.  |
|                   | Wednesday | I am learning to recognise angles where they meet at a point, on a straight line or are vertically opposite.        |
|                   | Thursday  | I am learning to find unknown angles in triangles, quadrilateral and regular polygons using mathematical reasoning. |
|                   | Friday    | I am learning to find unknown angles in triangles, quadrilateral and regular polygons using mathematical reasoning. |
| 2<br><br>Summer 1 | Monday    | I am learning to find unknown angles in triangles, quadrilateral and regular polygons using mathematical reasoning. |
|                   | Tuesday   | I am learning to draw 2-D shapes using given dimensions and angles.   |
|                   | Wednesday | I am learning to recognise, describe and build simple 3D shapes including nets.                                     |
|                   | Thursday  | Post assessment (Shape)   |
|                   | Friday    | Pre-assessment (Position and Direction)   |
| 3<br><br>Summer 1 | Monday    | Bank Holiday  |
|                   | Tuesday   | Inset Day   |
|                   | Wednesday | I am learning to plot shapes and coordinates on the first quadrant.   |
|                   | Thursday  | I am learning to describe positions on the full coordinate grid (4 quadrants).                                      |
|                   | Friday    | I am learning to draw and translate shapes on the coordinate plane.   |
| 4<br><br>Summer 1 | Monday    | SATS<br><br>KS2   |
|                   | Tuesday   |   |
|                   | Wednesday |   |
|                   | Thursday  |   |
|                   | Friday    |   |

| Week              | Day       | Learning Objective  |
|-------------------|-----------|---|
| 5<br><br>Summer 1 | Monday    | I am learning to reflect shapes into a variety of axes (all 4 quadrants). |
|                   | Tuesday   | I am learning to solve problems involving position and direction.         |
|                   | Wednesday | Post assessment (Position and Direction)                                  |
|                   | Thursday  | Arithmetic (I am learning to develop my knowledge of mental methods)      |
|                   | Friday    | Consolidation and themed projects   |
| 6<br><br>Summer 1 | Monday    | Consolidation and themed projects   |
|                   | Tuesday   | Consolidation and themed projects   |
|                   | Wednesday | Consolidation and themed projects   |
|                   | Thursday  | Consolidation and themed projects   |
|                   | Friday    | Consolidation and themed projects   |

| Week              | Day       | Learning Objective                |
|-------------------|-----------|-----------------------------------|
| 1<br><br>Summer 2 | Monday    | Consolidation and themed projects |
|                   | Tuesday   | Consolidation and themed projects |
|                   | Wednesday | Consolidation and themed projects |
|                   | Thursday  | Consolidation and themed projects |
|                   | Friday    | Consolidation and themed projects |
| 2<br><br>Summer 2 | Monday    | Consolidation and themed projects |
|                   | Tuesday   | Consolidation and themed projects |
|                   | Wednesday | Consolidation and themed projects |
|                   | Thursday  | Consolidation and themed projects |
|                   | Friday    | Consolidation and themed projects |
| 3<br><br>Summer 2 | Monday    | Consolidation and themed projects |
|                   | Tuesday   | Consolidation and themed projects |
|                   | Wednesday | Consolidation and themed projects |
|                   | Thursday  | Consolidation and themed projects |
|                   | Friday    | Consolidation and themed projects |
| 4<br><br>Summer 2 | Monday    | Consolidation and themed projects |
|                   | Tuesday   | Consolidation and themed projects |
|                   | Wednesday | Consolidation and themed projects |
|                   | Thursday  | Consolidation and themed projects |
|                   | Friday    | Consolidation and themed projects |
| 5<br><br>Summer 2 | Monday    | Consolidation and themed projects |
|                   | Tuesday   | Consolidation and themed projects |
|                   | Wednesday | Consolidation and themed projects |
|                   | Thursday  | Consolidation and themed projects |
|                   | Friday    | Consolidation and themed projects |

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|-------------------|-----------|-----------------------------------|
| 6<br><br>Summer 2 | Monday    | Consolidation and themed projects |
|                   | Tuesday   | Consolidation and themed projects |
|                   | Wednesday | Consolidation and themed projects |
|                   | Thursday  | Consolidation and themed projects |
|                   | Friday    | Consolidation and themed projects |
| 7<br><br>Summer 2 | Monday    | Consolidation and themed projects |
|                   | Tuesday   | Consolidation and themed projects |
|                   | Wednesday | Consolidation and themed projects |
|                   | Thursday  | Consolidation and themed projects |
|                   | Friday    | Consolidation and themed projects |
| 8<br><br>Summer 2 | Monday    | Consolidation and themed projects |
|                   | Tuesday   | Consolidation and themed projects |
|                   | Wednesday | Consolidation and themed projects |
|                   | Thursday  | Consolidation and themed projects |