# COURSE **TWO**

- **All classes should aim to complete Blocks 1 to 3 within the year. Timings are a rough guide allowing for maximum time. Some classes may work through revision quicker than allocated. Some classes may also require more time.**
- **National 4 Numeracy or National 5 Numeracy should be started after Easter and hopefully completed at the end of S2.**

| BLOCK **ONE: 8 WEEK BLOCK** | | |
|---|---|---|
| **Number & Algebra Revision** | **Angles** | **Percentages** |
| • S1 Arithmetic revision<br>a) Four Operations<br>b) Square, cube numbers and roots.<br>c) Order of Operations<br>• S1 Algebra Revision<br>a) Substitution<br>b) Collecting like terms<br>c) Solving 2 step equations<br>d) Solving equations: letters numbers both sides. | • Properties of 2D and 3D shapes.<br>• Recognise shapes in real life.<br>• Construct 3D shapes and understand surfaces (*e.g. edges, vertices, faces, etc.*).<br>• Types of Angles.<br>• Naming Angles using letters.<br>• Draw and Measure Angles.<br>• Angles in a triangle.<br>• Supplementary and complementary angles. Vertically opposite, corresponding and alternate angles, including parallel lines. | • Understanding percentages (*e.g. visual representation*).<br>• Connection between fractions and percentages (*e.g. ½ = 50%, ¼ = 25%, ¾ = 75%, $^1/_3$ = 33 $^1/_3$%, $^2/_3$ = 66 $^2/_3$%, $^1/_{10}$ = 10%*).<br>• Connection between percentages and decimals (*e.g. 0.3 = 30%, 0.02 = 2%, 0.98 = 98%, etc.*).<br>• Calculating percentages of amounts without a calculator.<br>• Calculate percentages using a calculator.<br>• Expressing Percentages. |
| 2 weeks | 3 weeks | 3 weeks |
| Formal Homework 1 | Formal Homework 2 | Formal Homework 3 |
| ***LOW STAKES QUIZ AT THE END OF EACH STRAND*** | | |
| **SUMMATIVE ASSESSMENT 1 : WEEK BEGINNING 4TH OF OCTOBER** | | |

# COURSE **TWO**

| BLOCK **TWO: 9 WEEKS** | | |
|---|---|---|
| **Number** | **Algebra** | **Time** |
| • Long Multiplication (*Algorithm method and other strategies i.e. Lattice, Table or partitioning, etc.*)<br>• Long Division.<br>• Non calculator Strategies for 4 operations. | • Using Inequalities.<br>• Solving Inequalities.<br>• Expanding binomials.<br>• Squaring binomials. | • Know basic time facts (*e.g. 60 secs = 1 min, 60 mins = 1hr, 24 hrs = 1 day, 7 days = 1 week, 52 weeks = 1 yr, 365 days = 1yr*).<br>• Read and write times from clocks.<br>• Understand and use 12 hour and 24 hour time and use in context.<br>• Calculate time intervals (*use a time line approach and NOT add/subtract algorithm*).<br>• Convert hours and minutes into decimals and back.<br>• Speed, distance and time calculations. |
| 2 weeks | 3 weeks | 4 weeks |
| Formal Homework 4 | Formal Homework 5 | Formal Homework 6 |
| ***LOW STAKES QUIZ AT THE END OF EACH STRAND*** | | |
| **SUMMATIVE ASSESSMENT 2: WEEK BEGINNING 13TH OF DECEMBER** | | |

# COURSE **TWO**

| BLOCK **THREE: 10 WEEKS** | | |
|---|---|---|
| **Number** | **Algebra** | **Perimeter, Area and Volume** |
| • Non Calculator Strategies for 4 operations.<br>• Revision of add, subtract, multiply and dividing integers. | • Solving Equations with brackets and fractions (*e.g. 2(2x + 3) = 22, 2(1 + 4x) = 5x + 23, 5(3x + 2) – 2(4x – 3) = 2x + 36)*<br>• Solving Equations with fractions (*e.g. ½ x + 3 = 7, etc.*).<br>• Solving equations by adding fractions.<br>• Solving equations with unknown on denominator. | • Revision of S1 Length, Perimeter and Area from Block 2.<br>• Area of composite shapes, kites, trapeziums, parallelograms and Rhombus.<br>• Calculate volumes of cubes and cuboids (*e.g. initially by counting cubes then using formula, include liquid volumes*).<br>• Understanding Pi.<br>• Circumference of circles.<br>• Area of Circles.<br>• Surface area of cuboids, prisms and cylinders. |
| 1 week | 3 weeks | 6 weeks |
| Formal Homework 7 | Formal Homework 8 | Formal Homework 9 |
| ***LOW STAKES QUIZ AT THE END OF EACH STRAND*** | | |
| **SUMMATIVE ASSESSMENT 3: WEEK BEGINNING 21ST OF MARCH** | | |

# COURSE **TWO**

| NATIONAL 4 NUMERACY (CALCULATOR PERMITTED) 28TH MAY - 10TH JUNE | |
|---|---|
| **NUM 1.1,1.2,1.3,1.4,1.5** | **NUM 2.1, 2.2, 2.3** |
| • Simple Percentages (Multiples of 10% and 5%)<br>• Foreign Exchange<br>• Time Intervals<br>• *(Perimeter: Missing sides)*<br>• Speed/Distance/Time: Converting Into decimal hrs<br>• Sharing Ratio<br>• Integers (Difference between temperatures)<br>• Reading measuring jugs<br>• Best Value (Deposit and Instalments)<br>• Measuring Angle using protractors<br>• Fractions of an amount (Pie Chart) | • Reading Tables<br>• Reading Bar Graphs<br>• Making Comparisons<br>• *(Probability- Decimal comparisons)* |
| 6 Weeks | 2 Weeks |
| Numeracy Assessment 1.1, 1.2, 1.3, 1.4, 1.5 | Numeracy Assessment 2.1, 2.2, 2.3 |
| **NATIONAL 4 NUMERACY ASSESSMENT** | |

| NATIONAL 5 NUMERACY (CALCULATOR PERMITTED) 28TH MAY - 10TH JUNE | | | |
|---|---|---|---|
| **UNIT 1: 2 weeks** | **UNIT 2: 2 weeks** | **UNIT 3: 2 weeks** | **UNIT 4: 2 weeks** |
| • Appreciation and Depreciation using the multiplier<br>• Significant figures<br>• Problem solving using weight (convert between g, kg & tonnes)<br>• Foreign Exchange | • Time Intervals with time difference<br>• Travel Cost using tables and percentages.<br>• Reading bar graphs | • Adding and subtracting fractions<br>• Equivalent ratio & sharing ratio<br>• Direct proportion | • Probability<br>• Statistics: Reading back to back stem & leaf and calculating the mean<br>• Reading scales and graphs |
| Unit 1 Assessment | Unit 2 Assessment | Unit 3 Assessment | Unit 4 Assessment |
| **NATIONAL 5 NUMERACY ASSESSMENT** | | | |