Year 7

|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\stackrel{0}{0}$ | Square numbers <br> Pythagoras <br> Place value for integers <br> Ordering numbers <br> Using 4 operations <br> Using a calculator | Algebraic notation Substitution Identify equations, expressions, formulae, terms, factors, inequalities Coordinates (4 quadrants) | Prime number identification <br> Factors and multiples <br> HCF/LCM <br> BIDMAS <br> Rounding <br> Revisit use of calculators | Angle rules Angles in polygons Symmetry in 2D shapes | Measurement Area and perimeter Properties of shapes Fractions, decimals, percentages Fractions calculations | Transformations End of term assessment Revision |
|  | Recognising square numbers <br> Pythagoras <br> Ordering positive and negative numbers <br> 4 operations <br> Using calculators effectively | Substitution <br> Using correct algebra notation Using coordinates in 4 quadrants | Identifying prime numbers Factors and multiples Strategies for finding HCF/LCM <br> Rounding numbers Using a calculator | Angle notation <br> Drawing and measuring angles <br> Angle sums for interior/exterior Symmetry | Measuring lines/angles <br> Calculating area/perimeter <br> Identifying key properties of <br> shapes <br> Converting FDP <br> Calculations with fractions | Reflection <br> Rotation <br> Trasnlation <br> Enlargement <br> Congruency <br> Coordinates |
|  | Concept of square numbers Using basic equipment Concept of negative numbers Using the four operations | Basic substitution Using a coordinate grid Basic algebraic notation Concept of simplifying with algebra | Some knowledge of prime numbers <br> Finding basic factors and multiples <br> Times tables <br> Rounding numbers | Different types of angles Basic angle rules Identifying shapes | Use of ruler <br> Basic understanding of area <br> Understanding of properties <br> of shapes <br> Basic knowledge of fractions | Knowledge of symmetry Understanding of reflection Ability to use measuring equipment |
| n 品 on n | Finding missing sides Ordering numbers 4 operations Using calculators | Substitution <br> Identifying algebraic <br> terminology <br> Coordinates <br> Simplifying expressions | Finding factors and multiples <br> Identifying primes <br> Finding HCF/LCM <br> Using BIDMAS <br> Rounding to DP/SF | To find missing angles in a range of contexts <br> To find interior and exterior angles <br> To identify symmetry of shapes | Finding angles <br> Angle rules understanding Find properties of shapes Calculate with fractions | Identify coordinates Transformation of 2D shape in a range of contexts Revision - able to answer exam style questions. |
|  | In class formative assessment | End of term test | In class formative assessment | In class formative assessment | In class formative assessment | End of year exam |


|  | Year 8 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| $\stackrel{\text { n }}{0}$ | Place value <br> 4 operations including <br> negative numbers <br> Ratio notation <br> Dividing into ratios <br> Converting ratios and <br> fractions <br> Vertices, faces, edges <br> Nets and isometric drawing <br> Calculating volume <br> Converting units | Scatter graphs <br> Bar charts and frequency <br> polygons <br> Pie charts <br> Sampling/data collection <br> Transformations <br> Simplifying expressions <br> Simplifying algebra <br> Functions <br> Solve equations <br> Expand brackets | Place value for decimals <br> Ordering numbers <br> Ordering decimals/ fractions <br> Using inequality symbols <br> 4 operations <br> Draw/measure angles <br> Angle rules <br> Constructing triangles <br> Congruency/similarity | BIDMAS <br> Factors/multiples <br> HCF/LCM <br> Powers Using a calculator | Sequences from nth term rules <br> Geometric sequences <br> Finding nth term <br> 4 operations with fractions <br> Convert FDP <br> Calculate percentages <br> Find percentage change | Experimental probability Probability scale Mutually exclusive events Language of probability Use the fact that all outcomes sum to 1 |
|  | Place value <br> Adding/subtracting/multiply ing and dividing numbers Understand and using ratio Converting ratios/fractions Identifying 2D/3D shapes Identifying vertices, edges, faces <br> Using isometric paper | Scatter graphs <br> Pie charts <br> Ways to present data <br> Transformations <br> Simplifying/expanding | Place value <br> Ordering numbers <br> Using inequality symbols <br> 4 operations <br> Drawing and measuring angles <br> Construction <br> Similar shapes | BIDMAS <br> Factors/multiples <br> HCF/LCM <br> Using powers <br> Using a calculator effectively | Writing sequences from rules Finding nth term Adding, subtracting, multiplying and dividing fractions Finding percentages | Working with theoretical and experimental probability <br> Sum of outcomes = 1 <br> Mutually exclusive events, definition and calculations Calculating probabilities |
|  | Place value <br> Basic use of the 4 operations Finding factors of numbers Concept of ratio | Identifying some shapes Knowledge of charts/graphs Drawing graphs Ability to read tables/graphs Simplifying algebra | Types of angle Inequalities Angle knowledge Some understanding of congruency | Place value Ordering numbers Factors and multiples | Spotting patterns/sequences Finding sequences from a rule <br> Some understanding of using the nth term Finding simple percentages | The difference between experimental and theoretical probability <br> Finding all outcomes from an experiment <br> Calculating basic probabilities |
|  | Able to convert fractions and ratios Use ratio notation correctly Add, subtract, multiply and divide with negative numbers | Drawing and interpreting charts and graphs Use scatter graphs and pie charts to represent data Transform shapes <br> Solving equations <br> Expanding brackets | Solve inequalities <br> Draw and measure angles <br> Find missing angles <br> Constructions <br> Similar shapes | Congruency/similarity BIDMAS <br> Find factors and multiples and HCF/LCM | Use nth term rules <br> Add, subtract, multiply and divide fractions <br> Find percentages <br> Calculate percentage change <br> Geometric sequences | Use the probability scale Calculate theoretical and experimental probabilities Use the fact that all outcomes sum to 1 to find probabilities Understand the term mutually exclusive |
|  | In class formative assessment | End of term test | In class formative assessment | In class formative assessment | In class formative assessment | End of year exam |

