<table>
<thead>
<tr>
<th>STRAND</th>
<th>SKILLS TO DEVELOP</th>
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| **NUMBER & ALGEBRA** | **Number & Place Value**  
- Recognise, model, represent & order numbers to beyond a million in digit, word and exponential form  
- Explain other number systems  
- Recognise and use number properties  
  - odd/even, equal/not equal, greater than/less than  
  - prime/composite, square/triangle, palindromic numbers  
  - factors, multiples, square root  
- Investigate, recognise, continue and generalise patterns involving place value, relationships beyond millions and to thousandths  
- Recall of all basic number facts (+ - x ÷)  
- Use calculator to perform operations  
- Investigate everyday situations that use integers (numbers) and locate/represent these on a number line  
  - Addition & Subtraction / Multiplication & Division  
    - Mental/written facts & knowledge of strategies beyond hundreds of 1000's involving all four operations with whole numbers  
- Use calculator to perform operations  
**Fractions & Decimals**  
- Compare fractions with related denominators and decimal fractions, locate and represent them on a number line  
- Equivalence between decimal fractions, common fractions and percentages  
- Addition and subtraction of decimal fractions to thousandths  
- Multiplication of decimal fraction to thousandths by 1 and 2 digits  
- Division of decimal fraction to thousandths by 1 digit  
- Multiply and divide decimals by power of 10  
- Addition/subtraction of fractions with same/like denominators  
- Find a simple fraction of a quantity where the result is a whole number  
- Concept of ratio and use of ratio symbol  
**Money & Financial Maths**  
- Investigate and calculate percentage discounts – 10%, 20%, 50% on sale items  
**Patterns & Algebra**  
- Continue and create sequences involving whole numbers, fractions and decimals – describe the rule to create the sequence  
- Explore the use of brackets and order of operations to write number sentences  |
| **MEASUREMENT & GEOMETRY** | **Using Units of Measurements**  
- Connect decimal representations to metric system eg: 50cm = .5 m  
- Estimate, calculate, measure mass, length, volume and area of objects  
- Convert units of mass, length and capacity using mental/written strategies – eg: ml/L  
- Differentiate between mass and weight; length, height, distance of objects; volume and capacity |
- Estimate and calculate perimeter of regular and irregular polygons including combined shapes
- Explain and use the relationship between the circumference and a diameter of a circle to calculate the circumference
- Estimate, measure and calculate the volume of square, rectangle, triangle and circular based prisms
- Estimate, calculate and measure area of squares, rectangles, triangles, irregular shapes and combined figures
- Read and interpret timetables
- Apply 4 operations to units for time for both am/pm and 24 hour time

**Shape**
- Relationship between angles (congruent, complementary, supplementary, vertically opposite)
- Construct shapes and designs using compasses, set squares, protractors
- Face, edges, bases, vertices, apex, angles
- Nets for prisms and pyramids

**Location & Transformation**
- Identify and construct symmetry and asymmetry in shapes and objects
- Identify turn symmetry of plane shapes
- Identify and draw reflection, rotation and translation of shapes
- Introduce Cartesian co-ordinate system using all four quadrants

**Geometric Reasoning**
- Investigate angles – on a straight line, at a point, vertically opposite. Use results to find unknown angles

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**STATISTICS & PROBABILITY**

**Chance**
- Describe probability using fractions, decimals and percentages
- Conduct experiments with both small/large number of trials
- Compare observed frequencies across experiments with expected frequencies

**Data Representation / Interpretation**
- Construct and interpret bar, circle, column, line graphs using two variables
- Interpret secondary data presented in digital media