<table>
<thead>
<tr>
<th>STRAND</th>
<th>SKILLS TO DEVELOP</th>
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<td><strong>NUMBER &amp; ALGEBRA</strong></td>
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</table>
| **Number & Place Value** | □ Recognise, model, represent & order numbers to one million in digit, word and expanded form  
□ Identify & describe factors and multiples of whole numbers & use them to solve problems  
□ Recognise and use number properties  
  o equal/not equal  
  o greater than/ less than  
  o factor/multiple  
  o prime/composite  
  o square/triangle  
  o palindromic  
□ Solve problems of multiplication of large numbers using mental & written strategies  
□ Round numbers to 6 digits - use estimation & rounding to check reasonableness of answers to calculations  
□ Match cardinal to ordinal numbers  
□ Addition & Subtraction / Multiplication & Division  
  o Mental facts & knowledge of strategies of at least hundreds of 1000’s  
  o Mental multiplication & related division facts up to 10 – with remainders  
  o Written Algorithms -Addition  
    ▪ 2 five digit numbers without regrouping  
    ▪ more than 2 five digit numbers with regrouping  
  o Written Algorithms - Subtraction  
    ▪ 2 five digit numbers with regrouping  
  o Written Algorithms - Multiplication  
    ▪ 2 digit x 2 digit with regrouping  
    ▪ 3 digits by 2 digit with regrouping  
  o Written Algorithms - Division  
    ▪ up to four digits by 1 digit division (remainders expressed as decimal fractions)  
□ Estimate and validate with calculators  
**Fractions & Decimals** | □ Compare & order common fractions – represent and locate on a number  
□ Investigate strategies to solve addition/subtraction fraction problems – using the same denominator  
□ Compare, order & represent decimals - apply to thousandths with 4 operations  
□ Model fractions and percentage using shapes and explain equivalence  
□ Use calculators to determine percentage of amounts  
□ Use calculator to perform decimal fraction operations  
**Money & Financial Maths** | □ Record monetary values using decimal representation  
□ Create simple financial plans  
**Patterns & Algebra** |
| **MEASUREMENT & GEOMETRY** | □ Describe, continue & create patterns with fractions, decimals & whole numbers using addition & subtraction  
□ Use equivalent number sentences involving multiplication & division to find unknown quantities |
|---------------------------|----------------------------------------------------------------------------------|
| **Using Units of Measurements** | □ Choose appropriate units of measurement for length, area, volume, capacity and mass – calculate the perimeter & area of rectangles using familiar metric units. Recognise conservation of measurements  
□ Compare 12 and 24 hour time systems and convert between them  
□ Time concepts- decades, centuries, B.C, A.D. |
| **Shape** | □ Recognise, compare and draw polygons of up to 10 sides and 4 different triangle types  
□ Recognise and label components of a circle  
□ Connect 3D objects with their nets & other 2D representations |
| **Location & Transformation** | □ Recognise and draw line symmetry  
□ Identify flip, slide or turn pattern with shapes and apply enlargement transformation/compare with original  
□ Use a grid reference system to describe locations  
□ Describe routes using landmarks & directional language |
| **Geometric Reasoning** | □ Recognise, draw and measure all angles to 360° (acute, right, obtuse, straight, reflex, revolution) |
| **STATISTICS & PROBABILITY** | **Chance** □ Discuss the probability of events  
□ Write probability using common fractions, decimal fractions and percentage – recognise that probabilities range from 0-1 |
| **Data Representation and Interpretation** | □ Pose questions & collect data by observation or survey |