Year 6 Maths – Summer 2

Counting
Count on/back from a given number in steps of 10/100/1000/10000 to 1,000,000 and beyond
Count on/back in whole numbers, fraction and decimal sequences through zero to include negative numbers (e.g. 2.5 or 1 ¼)

Number and Place value
Read, write, partition, order and compare decimal numbers up to 3dp

Fractions, decimals and percentages
Add and subtract fractions with different denominators
Simplify fractions using times tables knowledge

Algebra
Find and write algebraic rules
Write algebraic expressions and formulae
Write and solve algebraic equations

Hook for learning:
Learning Challenge links to Mayans topic and Science links Evolution topic

Real life problem solving in White Rose transition projects

Learning Challenge links
*Using and understanding the Mayan number system

Calculation in Arithmetic skills time
Find a % of an amount by using different methods
Calculations involving decimals with varying amount of decimal places
Multiplying and dividing by multiples of 10
Addition and subtraction of fractions with different denominators

Non-negotiables:

- Write and solve algebraic equations
- Add and subtract fractions with different denominators
- Multiple and divide by multiples of 10 using place value knowledge
- Long multiplication methods including decimals
- Long division methods including remainders as decimals and rounding as appropriate

Statistics
Creating a pie chart using a protractor accurately
Identifying correlation on scatter graphs

Geometry
Draw multiple nets for a 3D shape
Using isometric paper to draw representations of 3D shapes

Meeting Expectations
- Perform mental calculations, including with mixed operations and large numbers
- Write and solve algebraic equations

Exceeding Expectations
Compare, order and convert between fractions, decimals and percentages in contexts related to science, history or geography learning

Maths –Weekly

Week 1: Algebra

Write algebraic expressions and formulae

Write and solve algebraic equations

Arithmetic

Multiplying and dividing by multiples of 10

Week 2: Algebra and Debt Awareness session

Solve equations that have lots of solutions

Arithmetic

Percentages of amounts

Week 3: Number system

Transition days

Learning Challenge – Mayan number system work

Arithmetic

Fraction addition and subtractions with different denominators

Week 4: Statistics

Creating pie charts with accurate use of a protractor

Identifying correlation in scatter graphs

Arithmetic

Decimal calculations with varying numbers of decimal places

Week 5: Geometry –3d shapes

Draw multiple nets for a 3d shape

Using isometric paper to draw representations of 3D shapes

Arithmetic

Using known facts

Week 6: White Rose transition project

Problem solving using a range of skills

Arithmetic

Mixed problems