Year 4 Maths – Autumn 1

Counting
- Count in multiples of 6, 7, 9, 25 and 1000
- Recall multiplication and division facts for tables up to 12 x 12.

Number and Place value
- Represent numbers using different resources
- Round to the nearest 10 and 100
- Count in 1000s
- Reasoning and problem solving: Rounding
- Represent 4 digit numbers using a range of resources
- Fill in intervals on a number line to 10,000
- Write numbers between two different values on a number line
- Reasoning and problem solving: 1000s, 100s, 10s, 1s
- Convert Roman Numerals to the Arabic number system

Exceeding Expectations
- Challenge activities for each objective (power maths challenge, deepening understanding, white rose small steps)

Hook for learning:
- **Links to LCC;** nrich 'Roman Numerals' Can you find some examples when the number of Roman numerals is fewer than the number of Arabic numerals for the same number?

Learning Challenge/Science links
- Read Roman numerals to 100 (1 to C) and know that, over time, the numeral system changed to include the concept of zero and place value.
- Read and record temperature using negative numbers. Present data using graphs and charts.

Non-negotiables:
- To recognise place value of any 4-digit number.
- Add & Subtract numbers up to 4-digit using effective written method.
- Can order numbers to 1000

Addition and Subtraction
- Add and subtract 1, 10, 100, 1000 to and from any 4 digit number
- Add 4 digit numbers using column method (no exchange)
- Add 4 digit numbers using column method (exchange in 1 column)
- Add 4 digit numbers using column method (exchange in more than 1 column)
- Reasoning and problem solving: add two 4-digit numbers
- Subtract 4 digit numbers using the column method where exchange is required and where there is a zero in a column to be exchanged from.
- Learn the equivalent difference method of subtraction
- Round to decide if calculations are accurate
- Check answers using inverse and estimate by rounding
- Solve 1 step and multi-step problems
- Use bar modelling to aid problem solving

Maths –Weekly

Week 1 (1 day) and 2 : Place Value

- Represent numbers using different resources
- Round to the nearest 10 and 100
- Count in 1000s
- Reasoning and problem solving: Rounding

M teach times tables – 4s
T tt rock stars **garage** and paper challenge
W tt rock stars **soundcheck** and paper challenge
Th teach times tables – 4s
F tt rock stars **studio** and paper challenge

Week 3: Place Value

- Represent 4 digit numbers using a range of resources
- Fill in intervals on a number line to 10,000
- Write numbers between two different values on a number line
- Reasoning and problem solving: 1000s, 100s, 10s, 1s

M teach times tables – 8s
T tt rock stars **garage** and paper challenge
W tt rock stars **soundcheck** and paper challenge
Th teach times tables – 8s
F tt rock stars **studio** and paper challenge

Week 4: Place Value and Addition and Subtraction

- Convert Roman Numerals to the Arabic number system
- Add and subtract 1, 10, 100, 1000 to and from any 4 digit number
- Add 4 digit numbers using column method (no exchange)
- Add 4 digit numbers using column method (exchange in 1 column)

M teach times tables – 6s
T tt rock stars **garage** and paper challenge
W tt rock stars **soundcheck** and paper challenge
Th teach times tables – 6s
F tt rock stars **studio** and paper challenge

Week 5: Addition and Subtraction (assessment week)

- Add 4 digit numbers using column method (exchange in more than 1 column)
- Reasoning and problem solving: add two 4-digit numbers
- Subtract 4 digit numbers using the column method where exchange is required and where there is a zero in a column to be exchanged from.

M teach times tables – 7s
T tt rock stars **garage** and paper challenge
W tt rock stars **soundcheck** and paper challenge
Th teach times tables – 7s
F tt rock stars **studio** and paper challenge

Week 6: Addition and Subtraction

- Learn the equivalent difference method of subtraction
- Round to decide if calculations are accurate
- Check answers using inverse and estimate by rounding

M teach times tables – 9s
T tt rock stars **garage** and paper challenge
W tt rock stars **soundcheck** and paper challenge
Th teach times tables – 9s
F tt rock stars **studio** and paper challenge

Week 7: Addition and Subtraction

- Solve 1 step and multi-step problems
- Use bar modelling to aid problem solving

M teach times tables – 11s
T tt rock stars **garage** and paper challenge
W tt rock stars **soundcheck** and paper challenge
Th teach times tables – 11s
F tt rock stars **studio** and paper challenge