Year 5 Maths Expectations

Number and Place Value
Read and write numbers to at least 1,000,000 in words and numerals and know the value of each digit
Count forwards and backwards in multiples of ten from any given number
Count forwards and backwards through zero with positive and negative numbers
Compare and order numbers to at least 1,000,000
Round any number to the nearest 10, 100, 1000, 10 000, 100 000
Read Roman numerals up to 1000 (M) and recognise years written in Roman numerals (look at dates at the end of TV programmes)

Number – mental addition and subtraction
Mentally add and subtract increasingly larger numbers

Number – mental multiplication and division
Know and recall rapidly all times tables (multiplication and division facts- consolidation of Y4)
Recall prime numbers up to 19
Understand, recognise and use square and cubed numbers including the notation (e.g. . 5^2, 2^3)

Number – fractions, decimals and percentages
Recognise mixed and improper fractions and convert between them (e.g. 1 ¾ = 7/4)
Round decimals with two decimal places to the nearest whole number and to one decimal place
Read, write, compare and order numbers with up to three decimal places
Know and recall rapidly decimal and percentage equivalents of ½, ¼ 1/5, 2/5, 4/5, ¾

Measurement
Know and use conversions: 1000g=1kg; 1000ml=1l; 1000m=1km 100cm=1m (consolidation of Y4)

Resources/Suggested activities:
Use coins to help with place value 10p = tens, 1p = units. So 3x10p and 4 x 1p = 34
Use playing cards or bingo to practise times tables (Ace = 1, Jack =11, Queen = 12). Turn over two cards and multiply together.
Use playing cards or dice to practise mental addition. Turn over 4 cards and add them quickly together; roll two dice and add quickly as you go.
Use a clock, watch or phone showing analogue and digital time
Make your own clock using card and butterfly clips (use Roman numerals in addition to standard numerals)
Find clocks and buildings with Roman numerals; look at dates at the end of TV programmes
Make cards with standard and Roman numerals – play a matching game.
Look at a variety of jugs that show ml/l – make cakes/smoothies, etc. to practise measuring
Look at scales that show kg/g – make cakes to practise measuring
Scale recipes up and down (e.g. this recipe makes 12 cakes, we need 24/36)
Shopping – budgeting, looking at receipts; prices of packs of 6 vs packs of 4 or individual

Useful maths websites
These sites have an excellent range of activities and games for most topics.
TTRockstars
https://ttrockstars.com/ (Ask the class teacher if you have forgotten the login details.)
- Use the 'Jamming' mode (no timer) while building up confidence, then use 'Soundcheck' to practice against the clock. Challenge friends using the 'Multiplayer' mode.
- Please read the TTRockstars parent guide that is attached as a separate document.

Top Marks
Age 7-11
https://www.topmarks.co.uk/maths-games/7-11-years/ordering-and-sequencing-numbers
Cool Maths 4 Kids – also includes lessons/explanations/brain teasers
http://www.coolmath4kids.com/
Maths is fun
Range of explanations and online activities
https://www.mathsisfun.com/numbers/index.html
Cool Maths Games – 24 is particularly good (https://www.coolmathgames.com/0-number-solver)
https://www.coolmathgames.com/