



Brushwood Junior School
Arithmetic Progression Map

Lower Key Stage 2

Year 3

Counting/place value

- Recall number bonds to 100.
- Randomly recall the 1, 2, 3, 4, 5, 8 and 10x tables.
- Count from 0 in multiples of 4 and 8.
- Count from 0 in multiples of 50 and 100.
- Count forward and backwards in 10s and 100s from any number.
- Compare and order numbers up to 100.
- Recognise the place value of each digit in 3 digit numbers.

*This understanding should also be applied to number sums.

Year 4

Counting/place value

- Count from 0 in multiples of 10, 25, 50, 100 and 1000.
- Count forwards and backwards in 100 from any number.
- Random recall of all times tables.
- Count backwards through zero to include negative numbers.

*This understanding should also be applied to number sums.

4 operations

- To be able to double and half up to 3 digit numbers.
- To apply place value knowledge to known additive and multiplicative number facts.
- To be able to add and subtract up to 3 digit numbers.
- To understand the inverse relationship between addition and subtraction.
- To be able to solve missing number problems involving addition and subtraction.

4 operations

- To be able to add any 2-digit number by partitioning or counting on.
- To be able to add and subtract up to 4 digit numbers.
- To be able to multiply and divide whole numbers by 10 and 100.
- To be able to multiply a 2 or 3 digits by 1 digit.
- To solve division problems, involving remainders.
- To be able to solve missing number problems involving addition and subtraction. For example, using function machines.



Upper Key Stage 2

Year 5

Counting/place value

- To secure fluency in multiplication table facts and corresponding division facts.
- Count forward or backwards in steps of powers of 10 for any given numbers up to 1million.
- Count up in tenths, hundredths and thousandths.
- To apply place-value knowledge to known additive and multiplicative number facts.

*This understanding should also be applied to number sums.

Year 6

Counting/place value

- To secure fluency in multiplication table facts, and corresponding division facts, through continued practice.
- To understand place value of numbers up to 10 million.
- Multiplying and dividing by powers of 10.
- To be able to order and compare decimals.

*This understanding should also be applied to number sums.

4 operations

- To be able to double and half numbers.
- To understand square and cube numbers.
- To apply place value knowledge to known additive and multiplicative number facts.
- To add and subtract up to 5 digit numbers.
- To be able to solve missing number problems involving addition and subtraction.
- To multiply and divide whole numbers by 10, 100 and 1000.
- To multiply and divide any whole number with up to 4 digits by any one-digit number.

4 operations

- To understand prime numbers.
- To apply place value knowledge to known additive and multiplicative number facts.
- To be able to add and subtract up to 5 digit numbers.
- To understand the inverse relationship between addition and subtraction.
- To solve missing number problems involving addition and subtraction.
- To understand and apply the commutative property of multiplication.
- Multiply and divide whole numbers by 10, 100 and 1000
- Long multiplication