Four Operations: Long Multiplication   Knowledge Organiser

Key Vocabulary

Multiply	Increase a number by a certain quantity at a time.
Times	To multiply
Product of	The answer of 2 numbers multiplied together.
Lots of	X groups of numbers increased by a certain amount
Groups of	X groups of numbers increased by a certain amount
Equal	=
inverse	To use the opposite operation to check answers. For multiplication this would be divide.

Key Information

1	When multiplying a number by a 2 digit number you must separate out the 2 digits.
2	Using brackets, you must multiply by the ones to begin.
3	Using brackets you then multiply the number by the tens.
4	When multiplying the tens, you must remember to add in the place holder.

Prior Knowledge

Y2	That multiplication of 2 numbers can be done in any order (commutative).
Y3	A multiplication table layout can be used to multiply 2 numbers together.
Y4	A formal method layout can be used to multiply 2 and 3 digit numbers by 1 digit numbers.
Y5	Long multiplication means that you partition numbers to ensure they are easier to multiply.

Worked Examples

Start with the ones.

154 × 6 = 924

154 × 20 = 3080

3080 + 924 = 4004

Worked Examples