## Multiplication and Division:

Expanded Multiplication with Three-Digit Numbers
Aim:
To multiply two-digit and three-digit numbers
by a one-digit number using formal written
layout.
I can multiply larger numbers using expanded
multiplication.

## Success Criteria:

I can set out the calculation correctly.
I can partition the calculation and multiply the ones, then the tens and finally the hundreds.

I can add the three calculations together to find the answer.

## Key/New Words:

Partition, multiply, expanded multiplication, tens, ones, hundreds, calculation.

Resources:<br>Lesson Pack<br>\section*{Preparation:}<br>Differentiated Expanded Multiplication<br>Activity Sheet - 1 per child<br>Times Table Loop Cards - 1 per class<br>Multiplication Square - as required

It will be helpful if the children know the multiplication and division facts up to $12 \times 12$, and can use expanded multiplication
Prior Learning: to multiply a two-digit by a one-digit number (covered in Expanded Multiplication (1): Expanded Multiplication with Two-Digit Numbers).

## Learning Sequence

Loop Cards: Complete the Times Table Loop Cards Activity. Each child has a card with an answer and a question
on it. When a child's answer matches another child's question, they need to ask the question on their card. Give all of
the cards out even if some children have more than one, or there will be a break in the loop.

## Masterit

Filmit: Children could make a short film about expanded multiplication, explaining the method clearly.
Writeit: Ask children to write their own set of multiplication word problems. Can their partner solve them using expanded multiplication?

