Max’s Long Multiplication Masterclass

Learning objective: To multiply multi-digit numbers by a two-digit number using the formal long multiplication method.

Help Max the monkey solve his jungle project puzzles! Follow these steps: 1. Set out your calculation clearly in columns. 2. Multiply the top number by the ones digit. 3. Remember to place a zero in the ones column before multiplying by the tens digit. 4. Add your two totals together to find the final product. Show your working out clearly in the boxes provided.

Word bank: Product · Place value · Column · Carry · Tens · Ones · Total · Calculation

1. Max is buying 24 bags of tropical fruit for the forest feast. Each bag costs £16. Set up your long multiplication calculation to find the total cost. (2 marks)

2. A giant oak tree in the forest has 35 branches. Each branch has 42 shiny leaves. Calculate the total number of leaves on the tree using long multiplication. (2 marks)

3. Explain why you must place a zero in the ones column when you begin multiplying by the tens digit. (2 marks)

4. If Max has 18 boxes and each box contains 56 shiny pebbles, show your steps to find the total number of pebbles. (2 marks)

5. Check your work: Estimate 28 x 43 by rounding both numbers to the nearest ten and multiplying them. Is your exact answer close to your estimate? (2 marks)

Extension challenge: Create your own 'Jungle Maths' word problem using a 3-digit number multiplied by a 2-digit number and challenge a partner to solve it.