Count in multiples There are two apples on one plate. Year 1 How many apples on 3 plates? of twos, fives and Solve one-step problems tens involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. Year 2 Recall and use multiplication and **Recall and derive doubles** division facts for Calculate the 2.5 and 10 mathematical statements for multiplication multiplication tables, including and division 0 10 15 20 × 2 recognising odd within the multiplication and even numbers tables and write them using the multiplication 10 = 50 40 (x), division (÷) and equals (=) $5 \times 4 = 20$ signs **Recall and Derive** doubles 7 + 7 = 14 $7 \times 2 = 14$

Using partitioning to $48 \times 3 = 144$ Year 3 Recall and use Scaling 0000 multiplication and 0000 multiply Making a 5cm line 4 times (Partitioning) division facts for longer Write and calculate 8 40 mathematical the 3, 4 and 8 X $57 \times 2 = 114$ statements for multiplication multiplication and 0000 4 8 12 16 20 24 $5cm \times 4 = 20cm$ 50×2 7×2 division using the tables 24 120 multiplication 100 + 14 = 114tables that they know, including for two-digit numbers Multiply single times one-digit digits by numbers, using 120 + 24mental and 20,30,40,50 and progressing to = 144 $4 \times 10 \times 3$ or formal written $4 \times 6 = 24$ methods $4 \times 3 \times 10$ Use arrays and number lines to count in multiples 67 × 9 Partitioning grid Recall Mental Year 4 Use place multiplication and multiplication leading to value, known division facts for Multiplying by 10 and 100 formal compact methods 60 and derived X multiplication 540 + 63 = facts to multiply Eg. 24×100 and divide tables up to 12 x 603 $67 \times 9 =$ mentally. 9 540 63 12 (facts for including: Th Н multiplying by 0 6.7.9.11.12 are 6 7 and 1; dividing new) by 1: multiplying together three numbers 437×6 Multiply single 0 digits by 60,70, Multiply and 400 30 × divide two-digit and 90 and three-digit numbers by a **Partitioning** 42 one-digit 6 2400 180 267×2 number using formal written $200 \times 2 = 400$ 400 + 120 +layout 14 = 2400 + 180 + 42 = 2622 $60 \times 2 = 120$ 534 $7 \times 2 = 14$

Year 5 Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers	Multiply and divide numbers mentally drawing upon known facts multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	Mental calculation Partitioning 407 × 4 407 × 2 400 × 4 = 1600 0 × 4 = 0 7 × 4 = 28 1600 + 28 = 1628 Rounding and adjusting £3.99 × 6 £4 × 6 = £24 £24.00 - £0.06 = £23.94 28 × 19 28 × 10 × 2 = 560 560 - 28 = 532	TU × 1 partiti 47 × 5 50	oning	7 35 0 (5 x 10 x 7) 56	Leading to multiplication using a compact method 3 7 8 X 7 2 6 4 6 5 5 4 5 6 9 X 8 3 6 5 5 2 4 5 7	Compact for TU × TU 28 × 39 28 × 39 252 840 1092 567 × 86 567 X86 3402 45360 556 48762
Year 6 Multiply multidigit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	Perform mental calculations, including with mixed operations and large numbers	Mental calculation Partitioning 5.7 × 6 5 × 6 = 30 0.7 × 7 = 4.2 30 + 4.2 = 34.2 5.3 × 19 5.3 × 10 × 2 = 106 106 - 5.3 = 100.7	3 X 2 9 5 1 1 2 2 1 1 2	4 6 2			