Multiplication		
Year 4	**Year 5**	**Year 6**
Multiplication Objectives	Multiplication Objectives	Multiplication Objectives

Year 4

Multiplication Objectives

PF-calculating

Develop and use written methods to record, support and explain multiplication of two-digit numbers by a one-digit number

Multiply and divide numbers to 1000 by 10 and then 100 (whole-number answers), understanding the effect; relate to scaling up or down

PF-Knowing and using number facts

Derive and recall multiplication facts up to 10 x 10, the corresponding division facts and multiples of numbers to 10 up to the tenth multiple

Times Tables

x facts for **all tables** up to 10x10 (and corresponding division facts)

Year 5

Multiplication Objectives

PF-calculating

Refine and use efficient written methods to **multiply HTU × U, TU × TU and U.t × U**

PF-Knowing and using number facts

Recall quickly multiplication facts up to 10 x 10 and use them to multiply pairs of multiples of 10 and 100; derive quickly corresponding division facts

Times Tables

Doubles of 2 digit decimals (and corresponding halves)

Year 6

Multiplication Objectives

PF-calculating

*Use efficient written methods **to multiply integers and decimals by a one-digit integer, and to multiply two-digit and three-digit integers by a two-digit integer***

PF-Knowing and using number facts

Use knowledge of place value and multiplication facts to $10 × 10$ to derive related multiplication and division facts involving decimals (e.g. $0.8 × 7$, $4.8 ÷ 6$)

Times Tables

x facts for **all tables** up to 10x10 (and corresponding division facts) and derive related facts involving decimals

Squares of all integers from 1 to 12

Multiplication		
Year 4	**Year 5**	**Year 6**

Method
Grid method

X	20	3
7	140	21 =161

Numbers used
TU x U

Working with multiplications for all tables.

Method
Grid method

Approximate first
72 x 38 is approximately 70 x 40 = 2800

x	70	2	
30	2100	60	= 2160
8	560	16	= 576
			2736

Numbers used
TU x TU
HTU x U
U.t x U

Method
Grid method

Approximate first
372 x 24 is approximately 400 x 20 = 8000

x	300	70	2	
20	6000	1400	40	= 7440
4	1200	280	8	= 1488
				8928

Numbers used
HTU x TU
HTU.t x U
HTU.th x U