# Teaching Times Tables in Wordsworth Primary School

Updated September 2021

# <u>Year Group Objectives</u>

#### Year 2

recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers

#### Year 3

- > recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
- > use place value, known and derived facts to multiply and divide mentally

# Year 4

- > recall multiplication and division facts for multiplication tables up to 12 × 12
- > multiply and divide whole numbers by 10, 100, 1000
- use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and
  1; dividing by 1; and multiplying three numbers together

# Year 5 & 6

- > recall multiplication and division facts for multiplication tables up to 12 × 12
- identify multiples and factors, including finding all factor pairs of a number and finding common factors of 2 numbers
- > know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
- > Recognise and use square and cube numbers
- > multiply and divide numbers involving decimals by 10, 100, 1000
- multiply and divide numbers mentally, drawing upon known facts e. 7 x 6 = 56 therefore 8 x 700 = 5600

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 2	2s	5s	10s	All	All	All
Year 3	2s, 5s, 10s	3s	4s	8 <i>s</i>	All	All
Year 4	2s, 5s, 10s, 3s, 4s, 8s	6s, 9s, 12s	7s, 11s	All	All	All
Year 5 & 6	2s, 5s, 10s & Related Facts	3s, 6s, 12s & Related Facts	4s, 8s & Related Facts	7s, 9s, 11s & Related Facts	All & Related Facts	All & Related Facts

# <u>Teaching</u>

It is essential that times tables are explicitly taught as a method of mental calculation for multiplication AND division. This must include specific whole-class teaching of individual times tables, alongside regular practice of those tables that have already been taught.

\* Explicit teaching of each times table for your year group BEFORE any written multiplication methods teaching.

\* Written multiplication should focus mainly on the times tables for year group and the previous ones (not the next year group times tables).

\* There should be no whole class teaching/practising of any times tables that are beyond your year group.

\* Explicitly use mathematical language related to multiplication and division, eg. Factors, multiples, product, divisor, dividend, quotient

# When and How to Teach

- \* As part of maths lesson. Specific teaching of times tables and techniques.
- \* Use Concrete -> Pictorial -> Abstract method of modelling times tables, eg.
  - Counting out groups of three
  - grouping objects into sets of three
  - drawing arrays to represent the calculation
  - representing the times table in a written equation
- \* See Appendix 2 for more ideas on explicit teaching of times tables

# **Practising**

Practice is important to ensure that previously taught times tables are remembered and embedded. On a regular basis, you should be practising times tables from previous year groups, as well as any tables you have already taught in your year group.

Practise should continue to expose children to times tables in a variety of different representations, not just purely reeling off a list of numbers in that times table. This will help to improve confidence with times tables, and speed of application, both of which are important for the multiplication check at the end of Year 4 and end of key stage testing.

# When and How to Practise

\* Throughout the day during any spare 5 minutes e.g. register, lining up, morning work, before break/lunch/end of day

Ideas for practise:

- \* Chanting in a variety of styles eg.
  - "one times three is three, two times three is six..."
  - "thirty divided by three is ten, twenty seven divided by three is 9..."
  - "three, six, nine, twelve..." (whilst counting on fingers to relate to which multiple it is)

\* Counting stick – use post it notes to put times tables on your counting stick and chant the numbers whilst counting on the stick. Remove the numbers from the counting stick one at a time and chant again, with children focussing on the numbers that are missing. <u>https://www.youtube.com/watch?v=TcnWKHs9K0E</u>

- \* Multiplication grids laminated copies available for children, ones with missing numbers
- \* Games e.g. fizz buzz, times tables duels, times tables hopscotch (chalk on playground/roof terrace)
- \* Online games e.g. <u>https://www.topmarks.co.uk/maths-games/7-11-years/times-tables</u>
- \* Times table Rockstars
- \* Flash cards and Loop cards
- \* Times table songs e.g. BBC Supermovers songs
- \* Short tests e.g. filling in x table grids, speed x tables, TTRS sheets

# Home Learning & Parent Support

- \* Use TTRS for home learning every week
- \* Send home flashcards, multiplication grids or other resources for children to practise with
- \* See parents' guide in Appendix 1 for more info, and send this home!

\* We must discuss times tables at each parents evening and tell parents which ones the children need to practise

# <u>Appendix 1</u>

















