



# Sleights Church of England (Voluntary Controlled) Primary School

Working together to be happy; to flourish; to succeed through our Christian Values of perseverance, respect and trust.

## Teaching Multiplication Times Tables at Sleights

### Intent: Expectations of multiplication knowledge

The National Curriculum states that children should be taught:

- **Year 1:** counting in 2s, 5s and 10s
- **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
- **Year 4:** recall multiplication and division facts for multiplication tables up to  $12 \times 12$

Our school's approach to multiplication times tables will support all children to gain a secure understanding of multiplication facts, which builds on and develops knowledge over all areas of mathematics.

### Implementation

At Sleights, the teaching of multiplication tables is completed through a systematic, whole class approach. Our intent is to break down the learning of each times tables into manageable chunks.

Children are taught, alongside each other, **one times tables per term**, irrespective of prior attainment. Children are supported to learn at the same pace, with catch up and pre-teach sessions used as necessary.

Within each term, children are taught **one times tables fact** at a time, ensuring this is fully understood and grasped, before moving on to extend knowledge. This includes a firm understanding of the **commutative law** and the relationship with **division facts**.

Children are provided with two weekly assessment opportunities, to ensure that no child falls behind.

### The teaching sequence

Each year group in school has a progressive set of times tables facts that will be taught across three terms. This sequence builds on already known facts, adding new knowledge incrementally over the child's time in school.

### The teaching sequence continued

2019

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In EYFS	In Year 1	In Year 2	In Year 3	In Year 4	In Year 5	In Year 6
Children recognise, write and count in 1s	Children count in 2s, 5s and 10s,	Children multiply x10 (A), x2 (Sp), x5 (S)	Children multiply x3 (A), x4 (Sp), x6 (S)	Children multiply x7 (A), x8 (Sp), x9 (S) and remaining facts	Children are provided with ongoing opportunities for using and applying multiplication times tables knowledge.	

A: Autumn

Sp: Spring

S: Summer

Children learn the smallest multiplication fact from the times table being studied first and progress from this point. On all occasions, children learn the times table as a **memorised phrase**, for example:

*"1 x 6 = 6, spoken as one times six equals six"*

Over time, with increasingly secure confidence and understanding, staff will support children to recognise alternative ways of repeating this known fact ("multiplied by, the same as, lots of")

In addition, staff will build confidence through exploring related division facts and other knowledge (such as larger numbers). This will include presenting the known fact in alternative ways, so that the children gain a secure knowledge and understanding before progressing to a new fact.

When beginning a new times table, the children revisit already known facts (gained from previously taught times tables), but most time is spent learning new knowledge.

All multiplication times tables sessions will be taught in mathematics lessons.

## Reinforcement

Known facts will be revisited and reinforced in the classroom setting in a range of ways. This will ensure children are provided with ongoing opportunities to retain and utilise gained knowledge. Activities for revisit and reinforce may include:

- Inclusion in daily key skills / 10 in 10
- Cross curricular application activities
- Maths games, including online using Sumdog
- Building connections with other known facts
- Extend connections with other related division facts

## Impact and Assessment

Ongoing assessment of times table knowledge is gathered through two weekly activities. These include a paper based and online assessments. Teaching staff maintain records of the children's progress in paper based assessments over time.

- Each times table has related assessment booklet which is completed over the course of the term when this is being taught. These booklets are designed to offer incremental challenge and difficulty, as children learn more new facts over time.
- One section from each booklet is completed per week.
- Children are given two minutes to complete as many questions as they can.
- This is a timed activity, but the timed element is handled in an age and stage appropriate manner.
- At the end of the two minutes, the adult leads the children in self marking, with the full times table fact read out. The children repeat this fact back. This is completed using the same memorised phrase style used in the teaching sequence (for example: "1 x 6 = 6, spoken as one times six equals six")
- Children mark their own work, filling in gaps, or corrections, if necessary.

#### Online activities:

- Teachers use Sumdog to set online assessments each week, using the 'Multiplication Tables' activities feature. This activity is designed support all children in preparation and consolidation of the Year 4 Multiplication Tables Check.

## Teaching Progression

Year 2		
Autumn Term	Spring Term	Summer Term
<b>X10</b>	<b>X2</b>	<b>X5</b>
1 x 10	2 x 2	
2 x 10	3 x 2	3 x 5
3 x 10	4 x 2	4 x 5
4 x 10	5 x 2	5 x 5
5 x 10	6 x 2	6 x 5
6 x 10	7 x 2	7 x 5
7 x 10	8 x 2	8 x 5
8 x 10	9 x 2	9 x 5
9 x 10		
10 x 10		
<b>10 facts</b>	<b>8 facts</b>	<b>7 facts</b>

Year 3		
Autumn Term	Spring Term	Summer Term
<b>X3</b>	<b>X4</b>	<b>X6</b>
3 x 3		
4 x 3	4 x 4	
6 x 3	6 x 4	6 x 6
7 x 3	7 x 4	7 x 6
8 x 3	8 x 4	8 x 6
9 x 3	9 x 4	9 x 6
<b>6 facts</b>	<b>5 facts</b>	<b>4 facts</b>

Year 4		
Autumn Term	Spring Term	Summer Term
<b>X7</b>	<b>X8</b>	<b>X9</b>
7 x 7		
8 x 7	8 x 8	
9 x 7	9 x 8	9 x 9
<b>3 facts</b>	<b>2 facts</b>	<b>1 fact</b>

## Year 4

### Throughout Year 4, in preparation for the Multiplication Times Tables Check

$11 \times 2$	$11 \times 3$	$11 \times 4$
$11 \times 5$	$11 \times 6$	$11 \times 7$
$11 \times 8$	$11 \times 9$	$11 \times 10$
$11 \times 11$	$12 \times 11$	$12 \times 12$
$12 \times 2$	$12 \times 3$	$12 \times 4$
$12 \times 5$	$12 \times 6$	$12 \times 7$
$12 \times 8$	$12 \times 9$	$12 \times 10$