

Studfall Infant Academy KS1 Multiplication Calculation Policy.

Year 1


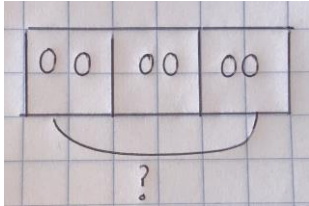
Multiply with concrete objects, arrays and pictorial representations.

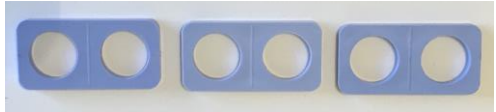
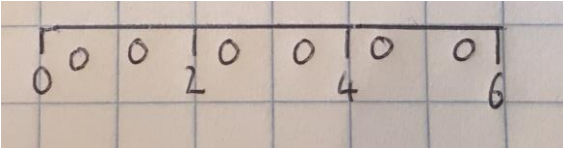
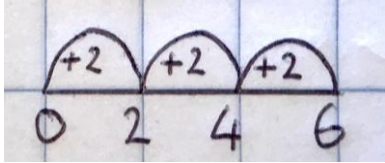
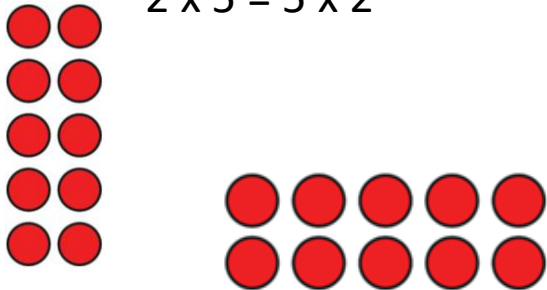
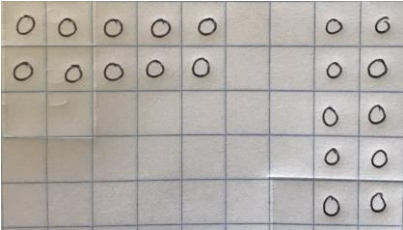
Multiplication is linked to doubling and counting in groups of the same size.

Multiplication and division symbols to be introduced in Year 2

Year 2

Multiply using arrays and repeated addition on a number line within the 2s, 5s and 10s times tables.

Skills	Concrete	Pictorial	Abstract
<p>Repeated grouping/repeated addition</p> <p>Grouping, equal groups</p> <p>* Years 1 and 2</p>	<p>Looking at columns $2 + 2 + 2$ There are 3 equal groups, with 2 in each group.</p> 	<p>Children to represent the practical resource in a picture / bar model.</p> <p>Sentence stem: There are 3 groups. There are 2 in each group. Altogether there are 6 circles.</p> 	<p>$3 \times 2 = 6$ $2 + 2 + 2 = 6$</p> <p>We are adding 2 three times</p>

<p>Number lines to show repeated addition</p> <p>Groups, groups of, lots of, multiply, multiplied by, times equal.</p> <p>* Year 2</p>	<p>We can represent the groups using numicon/counters.</p> 	<p>Pictorial number line representing the three groups of two</p> 	<p>Abstract numbers lines showing the three jumps of two.</p> <p>Leading to mentally jumping $3 \times 2 = 6$</p> 
<p>Use arrays to illustrate commutativity</p> <p>Array, lots of, groups of, repeated addition row, column</p> <p>* Year 2</p>	<p>Counters, objects etc. can be used</p> <p>$2 \times 5 = 5 \times 2$</p>  <p>2 lots of 5 5 lots of 2</p>	<p>Children to represent arrays pictorially</p>  <p>What is the same? What is different?</p>	<p>Children to be able to use an array to write a range of calculations e.g.</p> <p>$10 = 2 \times 5$ $5 \times 2 = 10$ $2 + 2 + 2 + 2 + 2 = 10$ $10 = 5 + 5$</p>