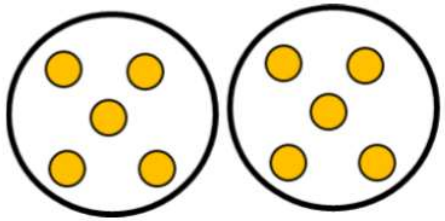
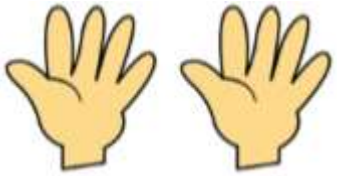
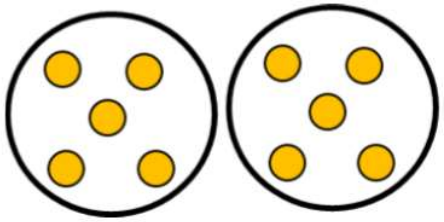
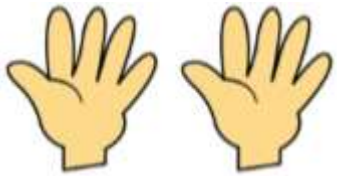
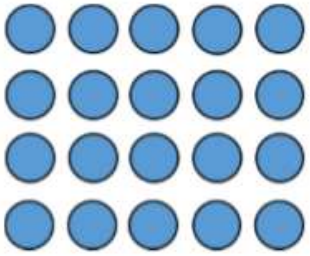
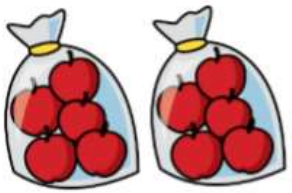
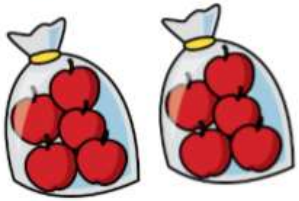
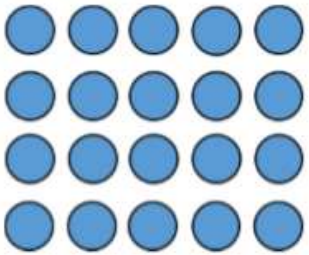
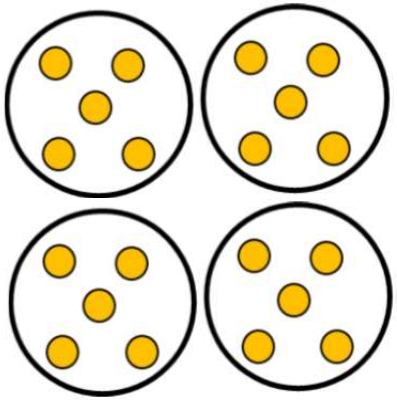
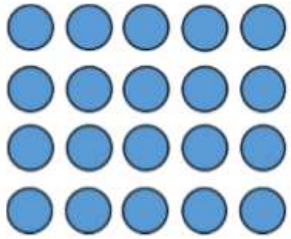
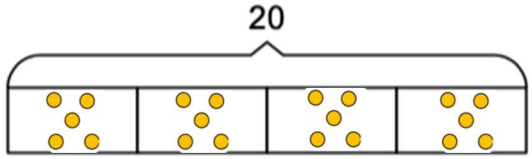
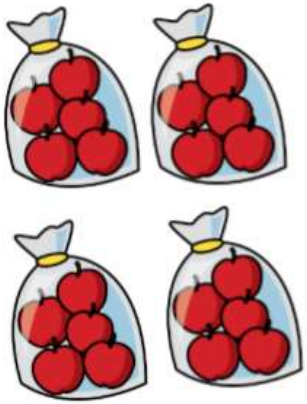
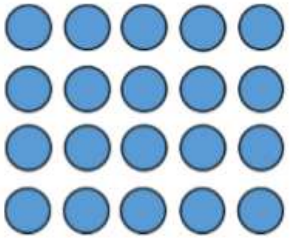
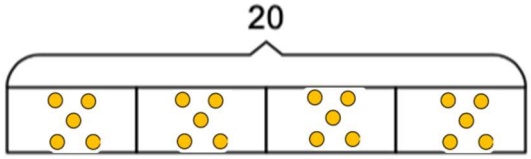
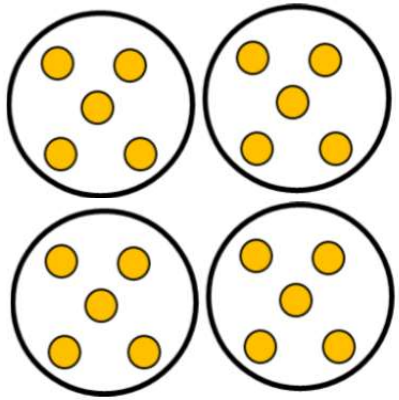
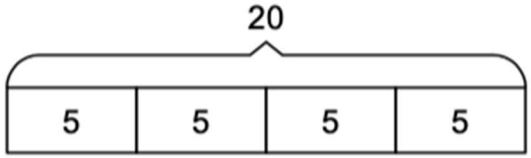
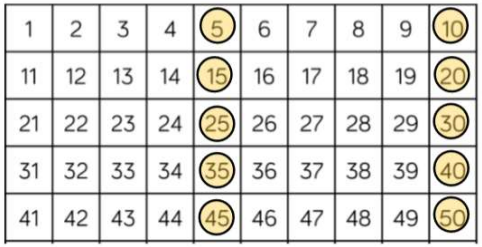
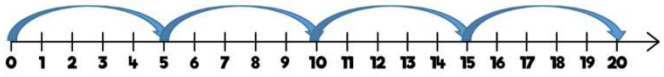
Multiplication at WBIS – Stage One

Concrete	Pictorial	Abstract
 Real objects, eg: counters, unifix Doubling using known body parts 	 Drawings of objects Double 5 is 10. Doubling using pictures of known body parts 	5 + 5 = 10 2 + 2 = 4 Link doubling to associated composition of the total
Skill - Doubling		
Key Vocabulary and Questions Doubling, double, number pattern, twice, same, What is double… ?, Is it twice as many?, Are they both the same?		

Multiplication at WBIS – Stage Two

Concrete	Pictorial	Abstract
 Making arrays using objects, eg: counters, unifix   Grouping with real objects, eg: 4 bags of 5 apples 	 Drawings arrays using grid/squared paper.  Draw groups of objects	5 + 5 + 5 + 5 = 20 There are 4 groups of 5 Link grouping to counting in times tables; 10s, 2s, 5s
Skill – Solve 1-step problems using multiplication (no multiplication symbol)		
Key Vocabulary and Questions Doubling, double, **pair**, number pattern, **grouping, groups of, array, repeated addition,** How many equal groups of… ?, How many in each group?, Are the groups equal?		

Multiplication at WBIS – Stage Three

Concrete	Pictorial	Abstract
 Making arrays using objects, eg: counters, unifix Use rows and columns to show commutative rule  Using real objects  Grouping with real objects, eg: 4 bags of 5 apples	 Drawings arrays using grid/squared paper. Use rows and columns to show commutative rule   Draw groups of objects	$5 + 5 + 5 + 5 = 20$ **$4 \times 5 = 20$** **$5 \times 4 = 20$** Understanding of commutative rule.  Link grouping to counting in times tables; 10s, 2s, 5s  

Skill – Solve 1-step problems using multiplication (and multiplication symbol)

Key Vocabulary and Questions

Doubling, double, pair, number pattern, grouping, groups of, array, repeated addition, **multiply, multiplication, multiple, times, equal groups of, row, column,** How many equal groups of… ?, How many in each group?, Are the groups equal?