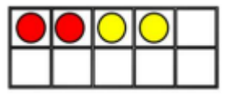
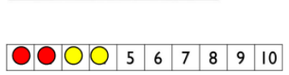
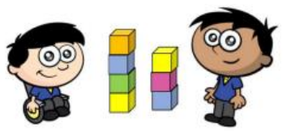
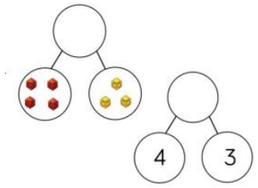
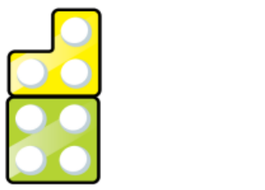
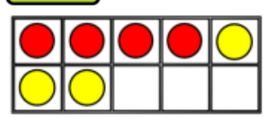
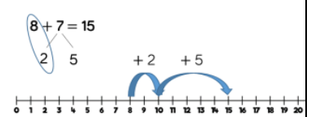
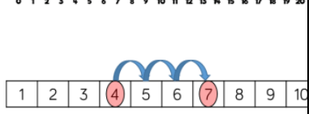
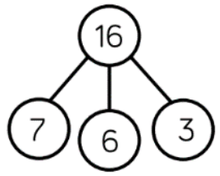
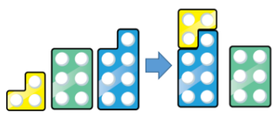
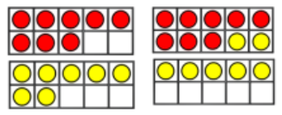
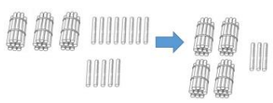
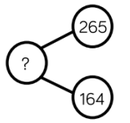
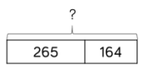
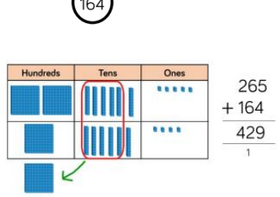
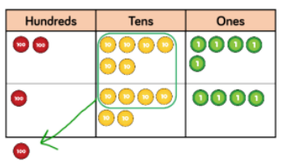
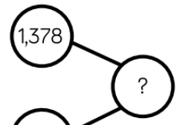
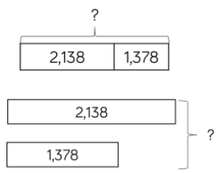
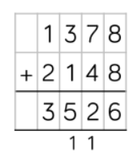
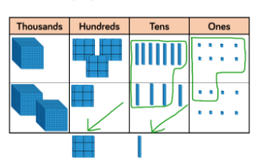
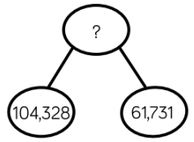
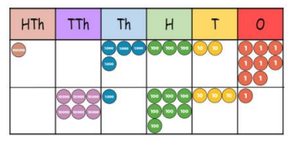
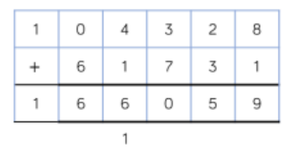
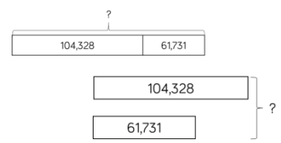
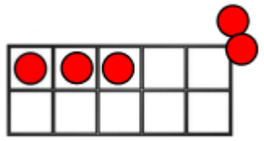
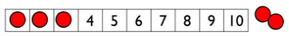
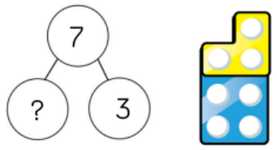
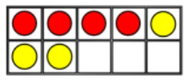
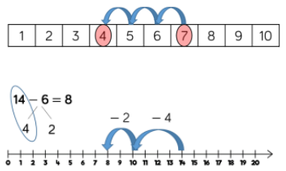
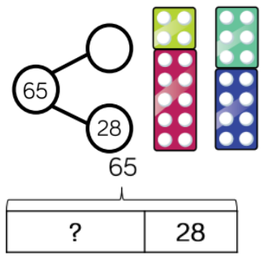
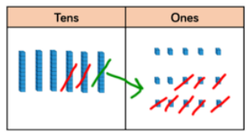
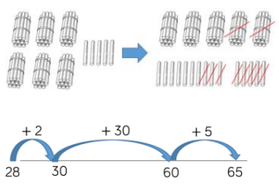
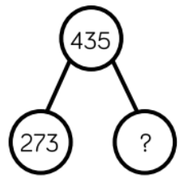
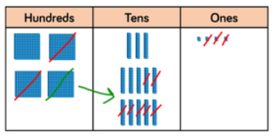
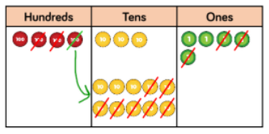
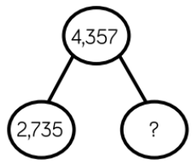
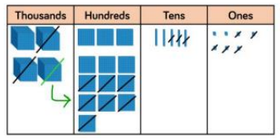
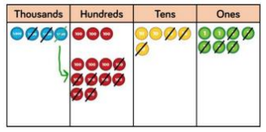
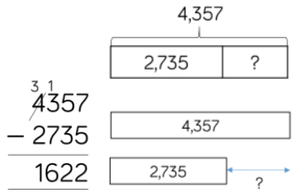
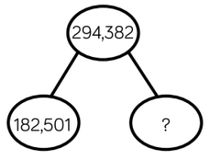
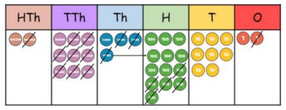
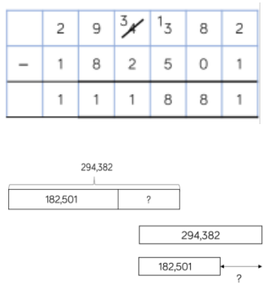
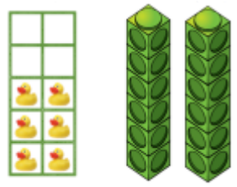
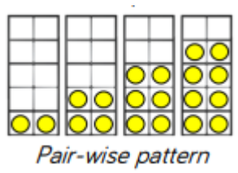
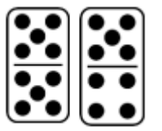
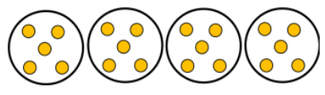
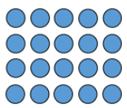
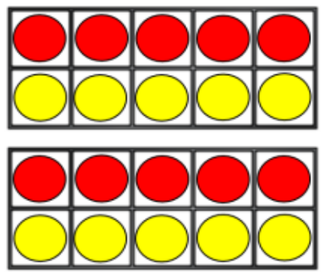
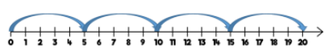
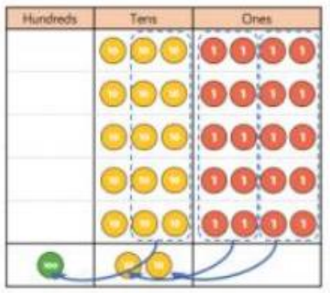
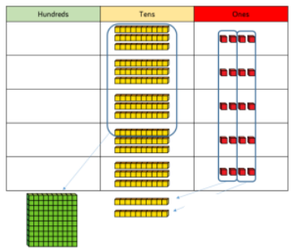
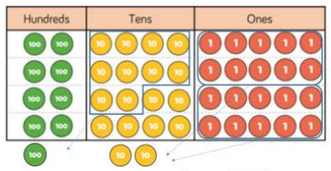
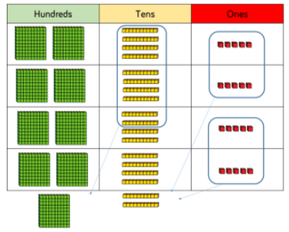
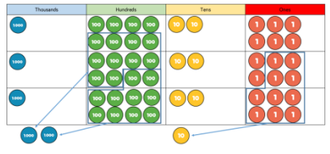
Addition

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Skills: • Adding more **Calculations / representations**: • 10 frames • Number tracks • Children's fingers • Real life objects • Cubes   	**Skills:** • Add two 1-digit numbers to 10 • Add 1 and 2-digit numbers to 20 **Calculations / representations**: • Part-whole model • Number shapes • Ten frames (within 10) • Number tracks • Number lines (labelled) • Base 10     	**Skills:** • Add three 1-digit numbers • Add 1 and 2-digit numbers to 100 • Add two 2-digit numbers **Calculations / representations:** • Part-whole model • Ten frames (within 20) • Number shapes • Number lines (labelled/blank) • Straws • Base 10 • Column addition • Bar model (end of Year 2)    	**Skills:** • Add with up to 3-digits **Calculations / representations:** • Part whole model • Base 10 • Place value counters • Column addition • Bar model    	**Skills:** • Add with up to 4-digits **Calculations / representations:** • Part whole model • Base 10 • Place value counters • Column addition • Bar model     	**Skills:** • Add with more than 4-digits • Add with up to 3 decimal places **Calculations / representations:** • Part whole model • Place value counters • Column addition • Bar model    	**Skills:** • Recall and use previous calculation methods to find the most efficient method to answer a question. • To manipulate calculation methods to solve arrange of problems. • To understand and apply these to real life scenarios.

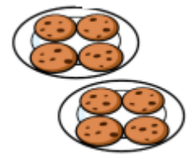
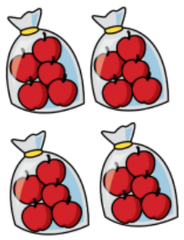
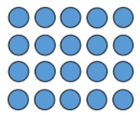
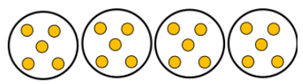
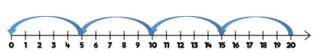
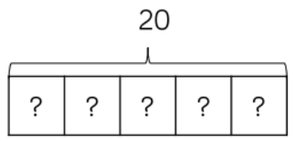
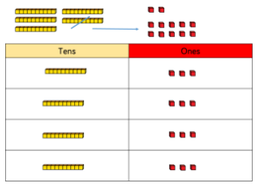
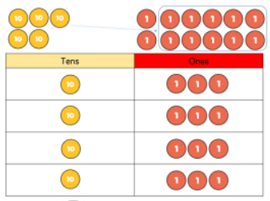
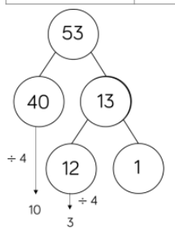
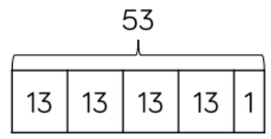
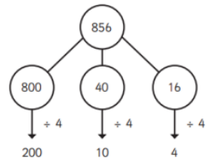
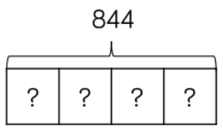
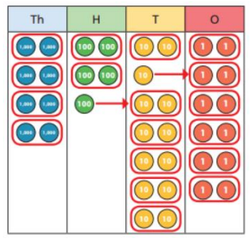
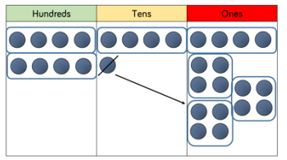
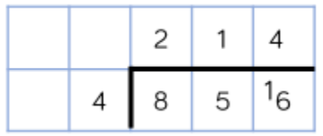
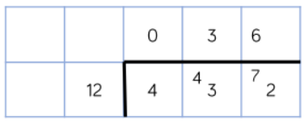
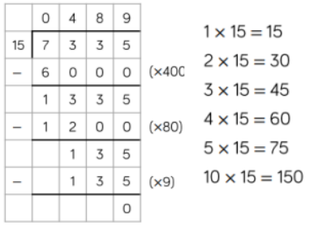
Subtraction

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Skills: • Taking away **Calculations / representations:** • 10 frames • Number tracks • Children's fingers • Real life objects • Cube   	**Skills:** • Subtract two 1-digit numbers • Subtract 1 and 2-digit numbers to 20 **Calculations / representations:** • Part-whole model • Number shapes • Ten frames (within 10) • Number tracks • Number lines (labelled)   	**Skills:** • Subtract 1and 2-digit numbers to 100 • Subtract 2-digit numbers **Calculations / representations:** • Part-whole model • Ten frames (within 20) • Number shapes • Number lines (labelled/blank) • Straws • Base 10 • Bar model (end of Year 2)   	**Skills:** • Subtract with up to 3-digits **Calculations / representations:** • Part whole model • Base 10 • Place value counters • Column subtraction • Bar model    	**Skills:** • Subtract with up to 4-digits **Calculations / representations:** • Part whole model • Base 10 • Place value counters • Column subtraction • Bar model    	**Skills:** • Subtract with up to 3 decimal places **Calculations / representations:** • Part whole model • Place value counters • Column subtraction • Bar model   	**Skills:** • Recall and use previous calculation methods to find the most efficient method to answer a question. • To manipulate calculation methods to solve arrange of problems. • To understand and apply these to real life scenarios.

Multiplication

EYFS	Year 1 and 2	Year 3	Year 4	Year 5	Year 6
Skills: • Doubling **Calculations / representations:** • Real life objects • Ten frames • Cubes • Number shapes   *Pair-wise pattern* 	**Skills:** • Solve one-step problems with multiplication **Calculations / representations:** • Counters • Arrays • Ten frames • Number lines • Base 10 (counting in 10s)   5 + 5 + 5 + 5 = 20 4 × 5 = 20 5 × 4 = 20  	**Skills:** • Multiply 2-digit by 1-digit numbers **Calculations / representations:** • Place value counters • Base 10 • Grid method • Expanded written method   H T O 3 4 × 5 2 0 (5 × 4) + 1 5 0 (5 × 30) 1 7 0	**Skills:** • *Multiply 2-digit by 1-digit numbers - recap* • Multiply 3-digit by 1-digit numbers **Calculations / representations**: • Place value counters • Base 10 • Grid method • Expanded written method • Short written method   H T O 3 4 × 5 2 0 (5 × 4) + 1 5 0 (5 × 30) 1 7 0 H T O 3 4 × 5 1 7 0 1 2	**Skills:** • Multiply 4-digit by 1-digit numbers • Multiply 4-digit by 2-digit numbers **Calculations / representations:** • Place value counters • Short written method  Th H T O 1 8 2 6 × 3 5 4 7 8 2 1 TTh Th H T O 2 7 3 9 × 2 8 2 2 1 5 9 3 1 7 2 1 5 4 7 1 8 0 7 6 6 9 2 1	**Skills:** • Multiply 4-digit by 2-digit numbers • Recall and use previous calculation methods to find the most efficient method to answer a question. **Calculations / representations:** • Short written method TTh Th H T O 2 7 3 9 × 2 8 2 2 1 5 9 3 1 7 2 1 5 4 7 1 8 0 7 6 6 9 2 1

Division

EYFS	Year 1 and 2	Year 3	Year 4	Year 5	Year 6
Skills: • Sharing and grouping **Calculations / representations**: • Real life objects  	**Skills:** • Solve one-step problems with division (sharing) • Solve one-step problems with division (grouping) **Calculations / representations:** • Real life objects • Arrays • Counters • Number lines • Bar model (year 2 only)   20 ÷ 5 = 4   	**Skills:** • Divide 2-digits by 1-digit (no exchange) • Divide 2-digits by 1-digit (with exchange) • Divide 2-digits by 1-digit (sharing with remainders) **Calculations / representations:** • Base 10 • Place value counters • Part-whole model • Bar model    	**Skills:** • *Divide 2-digits by 1-digit (sharing with remainders) - recap* • Divide 2-digits by 1-digit (grouping) • Divide 3-digits by 1-digit (sharing with exchange) • Divide 3-digits by 1-digit (grouping) **Calculations / representations:** • Place value counters • Place value chart • Part-whole model • Bar model   844 	**Skills:** • *Divide 2-digits by 1-digit (grouping) – recap* • *Divide 3-digits by 1-digit (grouping) - recap* • Divide 4-digits by 1-digit (grouping) **Calculations / representations:** • Place value counters • Place value chart • Bar model • Written short division   	**Skills:** • Divide multi-digits by 2-digits (short division) • Divide multi-digits by 2-digits (long division) **Calculations / representations:** • Written short division • List of multiples • Written long division (chunking)   1 × 15 = 15 2 × 15 = 30 3 × 15 = 45 4 × 15 = 60 5 × 15 = 75 10 × 15 = 150