



ADDITION AND SUBTRACTION CONCEPT SEQUENCE

Number and Algebra concepts in Kindergarten / Prep / Reception are taught informally under Early Counting and Grouping.

Select the Level number to link to the TEACHING RESOURCES for that Level at A LEARNING PLACE A TEACHING PLACE.

Concepts with a logical basis are in the left hand column to allow for easy differentiation.

LINKS		ADDITION AND SUBTRACTION	LINKS	WITH RELATED CONCEPTS		
YEAR 1	<u>1</u>	Counting forwards by 1s is adding 1 each time, recording on a number line.				
	<u>2</u>	Counting backwards by 1s is subtracting 1 each time, recording on number line.				
	<u>3</u>	.1 Add single-digit numbers using counters. .2 Subtract single-digit numbers using counters, recording counters.	<u>5</u>	Add single-digit numbers explaining commutativity. (Also Patterns and Algebra 4)	T1	
	<u>4</u>	.1 Add single-digit numbers counting on a number line. .2. Subtract single-digit numbers counting on a number line, counting back by 1s from one number, recording on a number line.				
	Investigate Friends of 10, Place Value of Teen Numbers and Partitioning (PLACE VALUE 6, 7, 8), then apply below.					
	<u>6</u>	Add single-digit numbers bridging 10 using non-count by ones strategies involving place value.			T2	
	<u>7</u>	Subtract a single-digit from a teen number bridging 10 using non-count by ones strategies involving place value.				
	Investigate Friends of 20 and any decade, and Place Value of Two-digit Numbers (PLACE VALUE 9, 10, 11), then apply below.					
	<u>8</u>	.1 Add single-digit and teen numbers bridging 20 using place value. .2 Subtract single-digit from 20-something numbers bridging 20 use place value.			T3	
	<u>9</u>	.1 Add single-digit and two-digit numbers bridging any decade using place value. .2 Subtract single-digit from two-digit numbers bridging any decade using place value.				
				<u>10</u>	Add and subtract zero. (Also Patterns and Algebra 5)	T4
				<u>11</u>	Add 3 or more numbers using associativity and friends of 10. (Also Patterns and Algebra 6)	
			<u>12</u>	Equivalent sentences involving addition and subtraction, describing the equals sign as equality. (Also Patterns and Algebra 7)		

LINKS		ADDITION AND SUBTRACTION	LINKS	WITH RELATED CONCEPTS
YEAR 2	Investigate counting forwards and backwards by 10s on and off the decade from tens and two-digit numbers. (PLACE VALUE 12), then apply below.			
	<u>13</u>	.1 Add tens numbers counting forwards by 10s. .2 Subtract tens numbers counting backwards by 10s.		
	Investigate partitioning tens numbers, friends of 100, place value and counting by 10s from three-digit numbers, (PLACE VALUE 13, 14, 15, 16), then apply below.			
	<u>14</u>	.1 Add tens numbers using place value. .2 Subtract tens numbers using place value.		T1
	<u>15</u>	.1 Add tens and two-digit numbers counting by 10s. .2 Subtract tens and two-digit numbers counting backwards by 10s.		
	<u>16</u>	.1 Add tens and two-digit numbers using place value. .2 Subtract tens from numbers in the one hundreds using place value.		
	<u>17</u>	.1 Add two-digit numbers using place value. .2 Subtract two-digit from number in the one hundreds using place value.		
		<u>18</u>	Add and subtract coins and notes, count change. <i>(Also Money and Financial Mathematics 7)</i>	T2
		<u>19</u>	Solve missing number sentences seeing difference in 3 ways. <i>(Also Patterns and Algebra 14)</i>	T3
		<u>20</u>	Addition and subtraction word problems as number sentences. <i>(Also Patterns and Algebra 15)</i>	
YEAR 3	Investigate counting by 10s, 100s and 1000s and place value of four-digit numbers, (PLACE VALUE 17), then apply below.			
	<u>21</u>	.1 Add three-digit numbers using place value and compensation. .2 Subtract three-digit numbers using place value and compensation. .3 Add four-digit numbers using place value and compensation. .4 Subtract four-digit numbers using place value and compensation.		T1
	<u>23</u>	.1 Add money of up to four-digits using place value, round to nearest 5 cents, give change .2 Subtract money of up to four-digits using place value. <i>(Also Money and Financial Mathematics 9)</i>	<u>22</u>	Missing and equivalent addition and subtraction number sentences. <i>(Also Patterns and Algebra 20)</i>

LINKS		ADDITION AND SUBTRACTION	LINKS	WITH RELATED CONCEPTS	
YEAR 4	Investigate place value of five-digit numbers. (PLACE VALUE 19), then apply below.				
	<u>24</u>	.1 Add five-digit numbers, including as money, using place value and compensation (possibly algorithms) .2 Subtract five-digit numbers, including as money, using place value and compensation (possibly algorithms). <i>(Also Money and Financial Mathematics 10)</i>	<u>25</u>	Add and subtract combinations of even and odd numbers, using the relationships to check calculations. <i>(Also Patterns and Algebra 22)</i>	T1
	Investigate equivalent fractions on a number line, (FRACTIONS AND DECIMALS 14), then apply below.				
			<u>26</u>	.1 Number patterns involving fractions that increase through addition .2 Number patterns involving fractions, that decrease through subtraction. <i>(Also Patterns and Algebra 23, Fractions and Decimals 15)</i>	T3
			<u>27</u>	Equivalent number sentences involving addition and subtraction to find unknown quantities. <i>(Also Patterns and Algebra 25)</i>	T4
YEAR 5	<u>28</u>	.1 Add fractions and mixed numerals with the same denominator. .2 Subtract fractions and mixed numerals with the same denominator. <i>(Also Fractions and Decimals 23)</i>			T3
	Use this concept now to investigate patterns with fractions and decimals (PLACE VALUE 27, FRACTIONS AND DECIMALS 24, PATTERNS AND ALGEBRA 28). Investigate decimals to thousandths on a number line, (PLACE VALUE 26, FRACTIONS AND DECIMALS 22) then apply below.				

LINKS		ADDITION AND SUBTRACTION	LINKS	WITH RELATED CONCEPTS
YEAR 6	<u>29</u>	.1 Add whole numbers and decimals of any size using place value. .2 Subtract whole numbers and decimals of any size using place value. <i>(Also Fractions and Decimals 32, Place Value 32)</i>		
	Investigate fractions in their simplest form, (FRACTIONS AND DECIMALS 28) then apply below.			
	<u>30</u>	.1 Add fractions and mixed numerals with related denominators using place value. .2 Subtract fractions and mixed numerals with related denominators using place value. <i>(Also Fractions and Decimals 33)</i>	<u>31</u>	.1 Number patterns with whole numbers in a table, describing the rule using the relationship between the term and the number. .2 Number patterns with fractions in a table, describing the rule using the relationship between the term and the number. .3 Number patterns with and decimals in a table, describing the rule using the relationship between the term and the number. <i>(Also Patterns and Algebra 29, Fractions and Decimals 34, Place Value 31)</i>
			<u>32</u>	Negative numbers. <i>(Also Patterns and Algebra 31)</i>
			<u>33</u>	Missing and equivalent number sentences using order of operations and grouping symbols. <i>(Also Patterns and Algebra 32, Multiplication and Division 29)</i>
				T2
				T3
				T4