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Lesson plans

1	Animal magic 1	24
	Children create animals by counting out a given numbers of cubes. They double and halve their cubes and find other quantities that can be used to make the legs and body.	
2	Cube animals	26
	Children make a given shape with cubes, then follow rules to change the shape and number of cubes. They predict totals of cubes, as they increase the size of the shape.	
3	Twos and threes	28
	Finding which numbers occur in both counts of 2s and 3s.	
4	Teddy order	30
	Finding different ways to order 3 objects. Children discover how to set out different combinations and arrangements.	
5	Clock numbers	32
	Children place counters on to the numbers on the clock, according to their properties. They consider value, shape and whether numbers are odd or even.	

6	What’s my number? Children identify a particular number, by asking questions, listening to the answers and thinking about the properties of numbers.	34
7	The pirates’ treasure Word clues are used to work out how to share out amounts up to 20.	36
8	Domino worms Finding different ways of making given totals using dominoes.	38
9	Domino seven Children combine dominoes so that touching domino numbers always make a total of 7.	40
10	Even total dominoes Gaining an even total with touching domino numbers, whilst thinking about patterns and properties of numbers.	42
11	Dice roll Children roll 2 dice and add the total. They cover numbers on the number track which also make that total. They can cover 1 or more than 1 number each time.	44
12	Packets of sweets Children find different ways of making given totals by combining and adding 2s, 3s, 4s and 5s.	46
13	Treasure Island Children find different ways of making a given total, adding together 2, 3 or more single-digit numbers.	48
14	Three dice toss Children toss 2 or 3 dice and find the highest and lowest possible totals. They also find the intermediate scores and work out how these can be made.	50
15	Three jumps Using a picture of a path to ‘jump’ along, children find different ways of adding 3 numbers to reach set totals.	52
16	Birds’ nests Children find different ways of making a given total, adding 3 even numbers.	54
17	Animal magic 2 Given a fixed quantity of cubes, children investigate the addition of doubles and another number to make that total. They record in a table.	56
18	Nim’s game Counters are removed from a grid and children try to take the last counter to win. They use different methods and think about sequences of subtraction and strategies to win.	58
19	Subtracting Children work out which different subtraction sentences can be created using the digits 1 to 9.	60
20	Domino differences Using dominoes, children try to find pairs with a spot difference of 4. They add to make totals, then subtract totals to reach 4.	62

21	Wiggly worms Children calculate possible lengths for 2 worms from the known difference. They calculate differences of 3 from ranges of numbers from 4 to 20.	64
22	Odd and even subtraction Children investigate how to produce an odd or an even number in subtraction.	66
23	Balloon add and subtract Children write addition and subtraction sentences, from given numerals. They use their understanding of number properties and relationships to calculate and check answers.	68
24	Toffee apples Children try to find different ways of making a specific amount using coins.	70
25	Sweet shop Logical thinking is used to work out the price of sweets from word clues.	72
26	Zoo time Children explain how to make a given 3-D animal shape, using the vocabulary of shape. In pairs they take turns to give and interpret information, through description.	74
27	Logical sorting Children use the set of large shape tiles to find how many different sequences they can make, where shapes are different from those next to them.	76
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