

Seeing Doubles : Maths : Year 4 : Autumn Term

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To be able to double numbers to 100.	Children will identify the difference between doubling and halving before answering some quick-fire doubling questions, starting with numbers below thirty and working up to solve doubling questions with larger numbers up to a hundred. Children will match numbers to their doubles and practise quick recall of doubling facts.	<ul style="list-style-type: none"> • Can children double numbers up to 30? • Can children double numbers up to 60? • Can children double numbers up to 100? 	<ul style="list-style-type: none"> • Slides • Doubles Matching Cards 1A/1B/1C • Blank Doubles Matching Game • Number Cards A/B/C (FSD? activity only) • Calculators - optional (FSD? activity only)
Lesson 2	To know doubles and halves of whole numbers to 100.	Children will explore how to halve numbers below a hundred, starting with even numbers then moving on to looking at how to halve odd numbers, expressing the answer as a decimal. Children will practise rapid recall of doubling and halving facts.	<ul style="list-style-type: none"> • Can children double and halve numbers to 20? • Can children double and halve numbers to 50? • Can children double and halve numbers to 100? 	<ul style="list-style-type: none"> • Slides • Double and Half Cards 2A/2B/2C • Game Board 2A/2B (FSD? activity only) • Dice and counters (FSD? activity only) • Calculators (FSD? activity only)
Lesson 3	To be able to double and halve numbers using appropriate methods, including partitioning.	Children will explore how to use partitioning to help them double larger two-digit numbers. They are encouraged to work out problems mentally before using written jottings to partition a number, double the tens and one, then add them together to find their answer. Higher-ability children will use this method to double small three-digit numbers.	<ul style="list-style-type: none"> • Can children double numbers below 50? • Can children double any two-digit number? • Can children double small three-digit numbers? 	<ul style="list-style-type: none"> • Slides • Worksheet 3A/3B/3C • Game Board 3A/3B (FSD? activity only) • Calculator - optional (FSD? activity only)
Lesson 4	To be able to double three- and four-digit numbers using partitioning.	Children will partition three- and four-digit numbers and double each part of the decomposed number, before adding together vertically to find the answer. They are encouraged to identify problems that are correct and incorrect, and to solve problems mentally where possible.	<ul style="list-style-type: none"> • Can children answer two-digit by one-digit multiplication questions by repeated addition? • Can children answer two-digit by one-digit multiplication questions by partitioning? • Can children answer three-digit by one-digit multiplication questions by partitioning? 	<ul style="list-style-type: none"> • Slides • Worksheet 4A/4B/4C • Calculation Cards 4A/4B (FSD? activity only) • Blank Calculation Cards (FSD? activity only)
Lesson 5	To be able to use the chunking method to divide three- and four-digit numbers.	Children will be introduced to the chunking method of division in order to halve numbers by dividing by two. They will start with three-digit numbers and move to on four-digit numbers if appropriate.	<ul style="list-style-type: none"> • Can children do simple division calculations using a number line? • Can children answer two-digit by one-digit division calculations? • Can children answer three-digit by one-digit division calculations? 	<ul style="list-style-type: none"> • Slides • Worksheet 5A/5B/5C/5D/5E • Spinner (FSD? activity only)