Calculating Decimals: Maths : Year 5 : Spring Term

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To be able to add decimals together to create a whole number.	Children will start by recapping the place value of each digit in numbers with two decimal places. They will then consider what they need to add to decimals with one or two decimal places to make a whole number, using diagrams and number lines to help them if necessary. They will also relate this to money, adding amounts to a given total to create amounts, such as £2.00.	• Do children know that fractions and decimals are both ways of expressing part of a whole? • Can children explain what each digit in a number with up to two decimal places represents? • Can children add two decimals together to produce a whole number?	• Slides • Number Cards 1A/1B/1C • Worksheet 1A/1B (FSD? activity only)
Lesson 2	To be able to read, write and compare numbers with up to three decimal places, and relate these to fractions.	Children will be introduced to thousandths, both in decimal and fraction form. They will write fractions as decimals, and vice versa, as well as writing numbers in digits from a written description. They will then start to compare decimals by looking at the place value of each digit.	• Can children recognise the value of each digit in numbers with up to three decimal places? • Can children read and write numbers with up to three decimal places? • Can children compare numbers with up to three decimal places?	• Slides • Worksheet 2A/2B/2C • Instruction Card (FSD? activity only) • Number Cards 2A/2B/2C (FSD? activity only) • Game Board (FSD? activity only) • Counters (FSD? activity only)
Lesson 3	To be able to order and compare decimals with up to three decimal places in real-life contexts.	Children will think about some instances in which decimals are used in real-life situations. They will then focus on the weight of different pets, comparing and ordering the weights up to three decimal places. They will start to use mental strategies to solve problems, such as 'Fluffy weighs 3.26 kg. Rufus is 0.12 kg heavier. How heavy is Rufus?'	• Can children identify some of the ways in which decimals can be used in real-life contexts? • Can children compare numbers with up to three decimal places? • Can children order numbers with up to three decimal places?	• Slides • Worksheet 3A/3B/3C • Animal Cards 3A/3B/3C • Height Cards (FSD? activity only) • Clue Cards (FSD? activity only)
Lesson 4	To be able to add and subtract decimals with up to three decimal places.	Children will explore how they can use column addition and subtraction to add and subtract decimals. They will focus on making sure the place value columns are aligned when numbers are of different lengths (e.g. 3.2 + 4.28). They will use this strategy to solve puzzles and word problems.	• Can children add numbers with up to three decimal places? • Can children subtract numbers with up to three decimal places? • Can children solve problems involving numbers with up to three decimal places?	• Slides • Worksheet 4A/4B/4C • Number Board 4A/4B/4C (FSD? activity only)
Lesson 5	To be able to add and subtract fractions with the same denominator and denominators that are multiples of the same number.	Children will recognise identical calculations that are expressed in both decimals and fractions. They will use this as the basis to start exploring how only the numerator needs to be added or subtracted in calculations. They will start adding and subtracting fractions, converting tenths, hundredths and thousandths to be common denominators where necessary. They will convert fractions to decimals.	• Can children relate numbers with up to three decimal places with their corresponding fractions? • Can children add and subtract fractions with the same denominator? • Can children add and subtract fractions with denominators that are multiples of the same number?	• Slides • Game Board 5A/5B/5C • Calculation Cards 5A/5B/5C • Target Board 5A/5B (FSD? activity only) • Worksheet 5A (FSD? activity only)

NB: 'FSD? Activity only' refers to the alternative 'Fancy Something Different...?' activity within the lesson plan