

# Decimals and Fractions: Maths : Year 5 : Spring Term

	Learning Objective	Overview	Assessment Questions	Resources
<b>Lesson 1</b>	To be able to match equivalent decimals and fractions.	Children will start by thinking of different ways of expressing the shaded proportion of a shape using fractions and decimals. They will then go on to recap the value of each digit in numbers with three decimal places, and the difference between proper, improper and mixed number fractions. They are then challenged to find equivalents between decimals and fractions in a variety of forms, and how to convert from one to the other.	<ul style="list-style-type: none"> <li>Do children understand that fractions and decimals are both ways of expressing proportion?</li> <li>Can children match fractions with their decimal equivalents?</li> <li>Can children convert fractions to create equivalent fractions?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 1A</li> <li>Proportion Cards 1A/1B/1C</li> <li>Game Board 1A/1B (FSD? activity only)</li> <li>Game Cards 1A/1B (FSD? activity only)</li> </ul>
<b>Lesson 2</b>	To be able to compare and order fractions whose denominators are all multiples of the same number.	Children will recap the difference between a numerator and a denominator before exploring how they can compare and order fractions whose denominators are all multiples of the same number. The process for converting fractions so that they have a common denominator is then used to help children find as many different equivalents for a fraction as they can.	<ul style="list-style-type: none"> <li>Do children know the difference between a numerator and a denominator?</li> <li>Can children compare fractions whose denominators are all multiples of the same number?</li> <li>Can children order fractions whose denominators are all multiples of the same number?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 2A/2B/2C</li> <li>Fraction Cards 2A/2B (FSD? activity only)</li> </ul>
<b>Lesson 3</b>	To be able to add and subtract fractions whose denominators are multiples of the same number.	Building on their learning from the previous lesson, children will explore how they can add and subtract fractions whose denominators are all multiples of the same number. They will convert fractions so that they have a common denominator to make addition and subtraction easier. They will also convert any appropriate answers from an improper to a mixed number fraction.	<ul style="list-style-type: none"> <li>Do children understand the difference between a numerator and a denominator?</li> <li>Can children convert fractions whose denominators are all multiples of the same number so that the denominators are common?</li> <li>Can children add and subtract fractions with common denominators?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 3A</li> <li>Challenge Card 3A/3B/3C</li> <li>Fraction Chains 3A/3B (FSD? activity only)</li> </ul>
<b>Lesson 4</b>	To be able to multiply proper fractions by whole numbers.	Children will find out how they can multiply a proper fraction by a whole number, firstly with the assistance of diagrams, then by converting the whole number to a fraction and multiplying the numerator by the numerator and the denominator by the denominator. They can then convert any answers that are improper fractions into mixed number fractions.	<ul style="list-style-type: none"> <li>Can children use diagrams to solve calculations that involve multiplying a fraction by a whole number?</li> <li>Can children solve calculations that involve multiplying a fraction by a whole number without using a diagram to support them?</li> <li>Can children convert an improper fraction to a mixed number fraction?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 4A/4B/4C</li> <li>Game Cards 4A/4B (FSD? activity only)</li> <li>Game Board (FSD? activity only)</li> </ul>
<b>Lesson 5</b>	To be able to multiply proper and mixed number fractions by whole numbers.	Children will recap how to multiply a proper fraction by a whole number before looking at how they can multiply a mixed number fraction by a whole number. They will do this by converting the mixed number into an improper fraction. With increasingly challenging calculations, children can apply this to real-life problems and recap their learning throughout the week.	<ul style="list-style-type: none"> <li>Can children convert between proper, improper and mixed number fractions?</li> <li>Can children multiply proper fractions by whole numbers?</li> <li>Can children multiply mixed number fractions by whole numbers?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 5A/5B/5C</li> <li>Game Board 5A/5B (FSD? activity only)</li> <li>Instruction Card (FSD? activity only)</li> <li>Dice and counters (FSD? activity only)</li> <li>Plenary Question Sheet</li> </ul>