Addition, Subtraction, Multiplication and Division: Division Doughnuts

Aim: Use their knowledge of the order of operations to carry out calculations involving the four operations. I can divide numbers using a formal written method.	Success Criteria: I can divide numbers by a two-digit number. I can use a formal written method.	Resources: **Lesson Pack** Coloured pencils Calculators Dice
	Key/New Words: Division, divisor, dividend, shared by, lots of, remainder, decimal, number sentence, written method.	Preparation: Differentiated **Division Doughnuts Activity Sheet** – 1 per child **Extra Challenge Activity Sheet** – as required

Prior Learning: It will be helpful if children are familiar with a formal method of division.

Learning Sequence

Multiplication Ball: Children play the game in small groups. Start a six-minute timer. The first child calls out a multiplication equation, e.g. $1 \times 7 =$ and throws the soft ball or beanbag to another child in the group who must answer the question. The child who has answered then asks a new question, e.g. $15 \times 6 =$ and throws the soft ball or beanbag on. The children complete as many passes as they can before the five-minute timer runs out.

Welcome to My Kitchen: Revise written strategies by talking through the information on the **Lesson Presentation**. Repeat with additional examples if necessary.

Doughnut Distribution: Using the **Lesson Presentation**, the children work out the answers to the division calculations to find the matching order of flavoured doughnuts. Can the children explain how they completed the calculation? Which calculation method did they choose to use? Did the children check their answer?

Division Doughnuts: Explain to the children that they will be completing a range of questions on the differentiated **Division Doughnuts Activity Sheet** that will require them to perform calculations using the strategy demonstrated earlier in the lesson.

★ Children complete a series of calculations where three-digit numbers are divided by two-digit numbers with no remainders using a formal written method. Once completed, children use a calculator to check their answers and colour the sections that they answered correctly.

★★ Children complete a series of calculations where three-digit numbers are divided by two-digit numbers with remainders using a formal written method.

★★★ Children complete a series of calculations where three-digit numbers are divided by two-digit numbers with decimal notation using a formal written method. Once completed, children use a calculator to check their answers and colour the sections that they answered correctly. An **Extra Challenge Activity Sheet** is provided as an extension activity if required.

Dice Discussion: Split the class into six groups and number them one to six. Roll a dice and the number indicates the table chosen to start feeding back findings from their activity or chosen calculation. Throw the dice again to select a different group and repeat.

Masterit
Challengeit: Children complete the questions on the challenging **Short Division Mastery PowerPoint Presentation**.
Practiseit: Practise the formal written method by completing these activity sheets: **Long Division Practise Activity Sheet** and **Short Division Practise Activity Sheet**.
Explainit: Children create a poster explaining how to complete division problems using a formal written method.