

Multiplication and Division: Decimal Disco

Aim: Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. I can multiply and divide numbers by 10, 100 and 1000.	Success Criteria: I can multiply and divide numbers by 10 by moving each digit one place to the left or right. I can multiply and divide numbers by 100 by moving each digit two places to the left or right. I can multiply and divide numbers by 1000 by moving each digit three places to the left or right.	Resources: Lesson Pack Dancing music (optional) Dice
	Key/New Words: Decimal point, tenths, hundredths.	Preparation: Differentiated Decimal Disco Activity Sheets - 1 per child Place Value Grids - as required Disco Lights Self-assessment Cards - cut up 1 per child

Prior Learning: It will be helpful if the children can multiply and divide whole numbers by 10, 100 and 1000.

Learning Sequence

	Decimal Dancing: Numbers up to two decimal places are revealed on the screen. If the number is larger than the preceding one, then dance high (arms in the air!) If it is lower, then dance low (how low can you go?). This starter can be played silently or with music.	
	Multiplying and Dividing by 10, 100 and 1000: Check that the children remember how to multiply and divide whole numbers by 10, 100 and 1000 using the examples on the Lesson Presentation .	
	The Decimal Point: Explain how to divide by 10, moving across into tenths and hundredths. Remind the children how to read numbers with decimals using the prompts on the Lesson Presentation .	
	Practise: Children work in pairs to multiply and divide by 10, 100 and 1000.	
 Children multiply and divide by 10, 100 and 1000 using a Place Value Grid. Children multiply and divide by 10, 100 and 1000 with increasingly large numbers. Children multiply and divide by 10, 100 and 1000, including working with numbers beyond a million and completing missing number problems.	Decimal Disco: All groups complete differentiated Decimal Disco Activity Sheets , multiplying and dividing numbers by 10, 100 and 1000.	
	Disco Lights: The children self-assess their progress and confidence in multiplying and dividing numbers by 10, 100 and 1000, using the Disco Lights Self-assess Cards .	

Masterit

Checkit: Children work through this [Mastery Presentation](#) to check their understanding of multiplying and dividing by 10, 100 and 1000.

Filmit: Children work in small groups to produce a film to teach others how to multiply and divide by 10, 100 and 1000. They could use animation or act in the film themselves