
















Multiplication and Division: Gardening

Aim: Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. I can solve problems using my knowledge of square and cube numbers.	Success Criteria: I can pick out the important information from a word problem. I can calculate square and cube numbers to solve the problem.	Resources: Lesson Pack Dice
	Key/New Words: Squared, square, multiply, cube, cubed.	Preparation: Differentiated Gardening Activity Sheets - one per child

Prior Learning: It will be helpful if the children know the square numbers up to 12^2 , can calculate cube numbers and understand the notation for squared and cubed.

Learning Sequence

	Spiders: The children roll a dice to generate a number and perform the calculations on each of the spider's legs.	
	Squares and Cubes: The children explain how to square and cube numbers to the gardener.	
	Patios: Use the problems on the Lesson Presentation to demonstrate how to find the important information in the problem and solve it using squaring.	
	Planters: Use the problems on the Lesson Presentation to demonstrate how to find the important information in the problem and solve it using cubing.	
	Gardening: All groups complete differentiated Gardening Activity Sheets, solving problems using their knowledge of square and cube numbers. <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  Children solve word problems using square numbers and cube numbers. </div> <div style="text-align: center;">  Children solve word problems using square numbers and cube numbers. </div> <div style="text-align: center;">  Children solve word problems using square numbers and cube numbers. </div> </div>	
	Flip It: The children write their own word problems for the calculations on the Lesson Presentation, then pass their problems to a partner to solve.	

Masterit

Addit: Children work in pairs to write number sentences where they add two square numbers together, e.g. $3^2 + 2^2 = ?$ They swap sentences and solve the problems.