

Addition, Subtraction, Multiplication and Division: Monster Multiplication

Aim: Use their knowledge of the order of operations to carry out calculations involving the four operations. I can multiply numbers using a formal written method.	Success Criteria: I can multiply numbers by a two-digit number. I can use a formal written method.	Resources: Lesson Pack Scissors Counters Googly eyes (These can be used as an alternative to counters for one of the activities.) Dice
	Key/New Words: Multiply, times, lots of, number sentence, written method.	Preparation: Monster Bingo - 1 per group Monster Machine Activity Sheet - 1 per child Monster Maker Activity Sheet - 1 per child Extra Challenge Activity Sheet - as required

Prior Learning: It will be helpful if children understand place value prior to the lesson. Also, it will be helpful if children know pairs of numbers to make 10 and 100.

Learning Sequence

	Quick Multiplication: Play the online BBC Multiplication Game as a class to recap quick mental multiplication up to 12×12 .				
	Multiplication Madness: Revise written strategies by talking through the information on the Lesson Presentation . Repeat with additional examples if necessary.				
	Potions: Using the Lesson Presentation , the children work out the multiplication calculation answers to match the correct calculation with the potion bottle. <i>Can the children explain how they completed the calculation? Which calculation method did they choose to use? Did the children check their answer?</i>				
 	Monster Multiplication: Explain to the children that they will be completing a range of questions that will require them to perform calculations using the strategy demonstrated earlier in the lesson. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; border: none;"> In a group, the children play Monster Bingo. An adult calls out a multiplication calculation. The children work out the (three-digit number \times two-digit number) calculation using a formal written method and place a counter or googly eye on the answer if it is on their board. The first child to cross off all of their answers wins. </td> <td style="width: 33%; border: none;"> Individually, the children complete the Monster Machine Activity Sheet by selecting and using an appropriate written calculation method to answer the four-digit number \times two-digit number calculations. </td> <td style="width: 33%; border: none;"> Individually, the children complete the Monster Maker Activity Sheet by selecting and using an appropriate method to answer a variety of multiplication calculations, including decimal numbers and using an inverse operation. An Extra Challenge Activity Sheet is provided as an extension activity if required. </td> </tr> </table>	In a group, the children play Monster Bingo . An adult calls out a multiplication calculation. The children work out the (three-digit number \times two-digit number) calculation using a formal written method and place a counter or googly eye on the answer if it is on their board. The first child to cross off all of their answers wins.	Individually, the children complete the Monster Machine Activity Sheet by selecting and using an appropriate written calculation method to answer the four-digit number \times two-digit number calculations.	Individually, the children complete the Monster Maker Activity Sheet by selecting and using an appropriate method to answer a variety of multiplication calculations, including decimal numbers and using an inverse operation. An Extra Challenge Activity Sheet is provided as an extension activity if required.	
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	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

- Makeit:** Children create their own maths game to practise multiplication calculations using a formal written method.
- Completeit:** Practise the formal written method by completing this differentiated [Missing Number Activity Sheets](#).
- Explainit:** Children create a poster explaining how to complete multiplication problems using a formal written method.