

Fill in missing numbers (+ and -) lesson plan

Subject: Maths	Lesson Title: Fill in missing numbers (+ and -)
Date:	Time Span:
Year Group: Year 2	Group Size: 30

Desired Learning Outcomes

To be able to use addition to calculate missing numbers in subtraction sentences and vice versa

To understand addition and subtraction as being inverse

Key Language:

Add, subtract, inverse and opposite

Use of ICT:

Smartboard for introduction

Assessment (Make reference to each section of the lesson)

Intro – Level of work based on ongoing assessment over the past few weeks

Main – Mark children's work as they complete it. Sit with any children who are struggling, bringing them back to the carpet if necessary. If still unsure by end of lesson sit with TA during plenary.

Plenary – Can children find the missing number from the sentence that their partner gives them?

Use of Other Adults

TA to monitor progress of children once they begin working

TA to sit and continue working with children (of any ability) who struggled in plenary

Anticipated Misconceptions/Difficulties

Children not understanding how to calculate the missing number e.g. in $32 + \underline{\quad} = 37$, children just add 32 and 37 together

Children not using the inverse to check that they have filled in the correct number

Resources

None

Introduction	Time
<p>Revise how we learnt yesterday that addition and subtraction were inverse (opposite) This means that we can use addition to check subtraction and vice versa. Model how to do this with some subtractions that are incorrect e.g. to check $6 - 4 = 3$, we can do $4 + 2 = 6$ and see that we made a mistake with the subtraction</p> <p>It also means that we can use addition to find the missing number in a subtraction number sentence e.g. $7 - \underline{\quad} = 5$, we can say $5 + \underline{\quad} = 7$</p> <p>Similarly we can use subtraction to work out the missing number in an addition number sentence e.g. $6 + \underline{\quad} = 9$, we can say $9 - \underline{\quad} = 6$</p> <p>We can also use addition to check subtraction and vice versa in the same ways</p>	10 mins
<p>Main (including differentiated tasks)</p> <p>Lower ability – children to calculate the missing number in addition and subtraction sentences with numbers up to 10 (children who work slowly to work on worksheet)</p> <p>Middle ability – children to calculate the missing number in addition and subtraction sentences with 1-digit numbers up to 100</p> <p>Higher ability – children to calculate the missing number in addition and subtraction sentences with 2-digit numbers up to 100</p> <p>Extension – make up their own addition and subtraction number sentences with a missing number for a partner to complete on pupil whiteboards</p>	25 mins
<p>Plenary</p> <p>Each child to give a partner a addition or subtraction number sentence to find the missing number for. Show each other what they think the missing number is. Partners discuss if agree about missing number</p>	10 mins