## Addition and subtraction as inverses lesson plan

| Subject: Maths | Lesson Title: Addition and subtraction as inverses |
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| Date: | Time Span: |
| Year Group: Year 2 | Group Size: 30 |

## Desired Learning Outcomes

To be able to use addition to check subtraction and vice versa
To understand addition and subtraction as being inverse

## Key Language:

Add, subtract, inverse and opposite

## Use of ICT: <br> 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 come up with an inverse number sentence to go with the one that their partner gave 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 swapping the numbers in the sentences to any order without checking if the number sentence is correct e.g. changing $8-5=3$ to $8+3=5$
Children not understanding how to use addition to check subtraction and vice versa

## Resources

None

[^0]$\left.\begin{array}{|l|c|}\hline \text { Introduction } & \text { Time } \\ \text { Briefly revise how to add and subtract on number line. What do children notice about } \\ \text { the direction that you move? } \\ \text { Briefly revise how to add and subtract multiples of ten on a hundred square. What do } \\ \text { children notice about the direction that you move? } \\ \text { Explain how addition and subtraction are inverse (opposite) } \\ \text { This means that we can use addition to check subtraction and vice versa. Model how } \\ \text { to do this with some subtractions that are incorrect e.g. to check } 6-4=3 \text {, we can do } \\ 4+2=6 \text { and see that we made a mistake with the subtraction } \\ \text { Explain how we can also write two different addition and two different subtraction } & \\ \text { number sentences using the same numbers, just by swapping the order of the } & \\ \text { numbers around e.g. } 8-5=3,8-3=5,5+3=8 \text { and } 3+5=8 \\ \text { Emphasise need to check number sentences are correct, not just swap around the } & 15 \\ \text { numbers in any way } \\ \text { Model swapping the numbers around incorrectly e.g. } 8-5=3,8-3=5,5+3=8 \\ \text { and } 3+8=5 \\ \text { (To help you can tell children that addition sentences will always end in the largest } \\ \text { number, whereas subtraction sentences always end in the smallest number, } \\ \text { although this is not true once children work with negative numbers) }\end{array}\right]$


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