

## Year 2 Maths Lesson Plan

## Resource Checklist

### Solve a problem using addition and subtraction: Lesson 2

#### Learning Objective & Outcomes

##### Learning Objective:

To find out how many pBuzzes are needed

##### Learning Outcomes:

I can solve a problem by adding and subtracting numbers  
I can work out how many pBuzzes are needed for everyone to play one in the school using addition and subtraction

##### National Curriculum Coverage:

To solve problems with addition or subtraction:  
Applying their increasing knowledge of written and mental methods.

- pBuzzes
- Data sheets of the boys and girls in each class for your school (or use the one provided in the resources area)
- Whiteboard and pen
- Paper and pencils for written methods to be recorded.

## Starter

Have a quick practise at counting in 10s.

Play 'Pass the Buzz'. Each child in turn blows one note around the circle. Ask the children how they could find out how many notes were played? That's right, we could count how many children are in the circle! Repeat this activity, but shout 'STOP' at a random point, and then ask the children to count up in 10s from the number they've stopped on, until they reach the last person in the circle.

Repeat this activity for 2, 3, 4 or 5 notes.

##### Key Questions:

- How could we tell the total of the notes played?
- How can we count on in 10s?

## Main

Tell the children that you wanted to find out how many pBuzzes would be needed for everyone in the school to play, but some of the data from last time has gone missing. Can they help you? Discuss the way this can be done. Provide them with the numbers of boys or girls in each class and the class totals (either use your own school's data or use the worksheet provided.) How many boys/girls are there in our class? I know that there are XX of you in the class, but I need to know how many girls there are. How could I use subtraction to find out? How many adults work in our classroom? Remind/show them how to write a subtraction calculation using whichever method you wish to focus on to work the missing number out.

##### Key Questions:

- How can you check if you have subtracted correctly?
- What written method can we use to find the missing number of children?
- How could we use a number line to help?

##### Differentiation:

##### For children working at emerging level

- Ask them to work out the number of boys/girls in each class by subtracting the number of girls/boys from the total number of children in each class. (This should give them calculations using 2-digit numbers.)
- If necessary they can have teacher or TA support for this activity

##### For children working at expected level

- Ask them to work out the missing numbers of pupils in each class using subtraction, and then work out how many children in each key stage by adding the classes' totals together. They should use a written method.
- They can add on the adults if they have time.

##### For children exceeding expectations

- Ask them to work out the missing numbers of boys/girls using subtraction and then use addition to fill in the missing totals using a written method.

## Plenary

Collect the answers from the class, discussing the method of working each part out as you go.

### Key Questions:

- How many boys/girls are there in each class?
- How many boys/girls are in KS1? KS2? How can we work it out?
- How many boys/girls are in the school? How can we work it out?
- How can we find out how many adults are in Year 4?
- Have we found an answer to my question at the beginning of the lesson?
- How many pBuzzes will I need to buy this time?

## Assessment & Evaluation

### What to look for:

Children can use addition and subtraction to solve the problem.

Children can show written methods of calculating the answers to the addition and subtraction.

### How will you know if the lesson has been successful?

Can all the children count in 2s/3s/10s together?

Can they all use written methods to add and subtract two numbers?

Can most of them add and subtract two 2-digit numbers and show understanding of how to solve the problem?

Can some of them add 2-digit and 3-digit numbers?

Can some of them explain how to find the missing numbers of children by either addition or subtraction?

## Notes for Next Time

*This space is for you to reflect on the lesson and make any notes you need.*

