

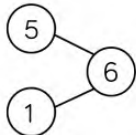


Mathematics Medium Term Plan

Year 1 Autumn Term Unit 2 Addition and Subtraction within 10

Focus: Addition and Subtraction within 10/Number Bonds

Time: 5 weeks



R2P: 1NF-1, 1AS-1, 1AS-2

NC

Represent and use number bonds and related subtraction facts within 10.

Read, write and interpret mathematical statements, involving addition (+), subtraction (-) and equals (=) signs.

Add and subtract one digit numbers to 10, including zero.

Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems.

Concept Sequence

Introduce Parts and Wholes.

Part-Whole Model – use different orientations.

Write number sentences. Introduce + symbol (addition) – combine with = to create sentences (c=a+b/a+b=c format). Use first, then, now stories and bar models.

Fact families – addition facts. Order of sentences can be varied. Include start with the whole/total.

Find number bonds within 10. Start with the whole.

Systematic numbers bonds within 10 using equipment.

Number bonds to 10. Use a variety of representations.

Addition – add together, use part-whole model. Use + = symbols.

Add more – move from counting all to counting on. Calculations in different orders. Use concrete and pictorial representations.

Addition problems – move to abstract. Use bonds rather than relying on counting.

Finding a part – apply numberbonds to solve missing numbers. Start from given part and count on. Include zero.

Subtraction – find a part - introduce subtraction (-) symbol.

Fact families – the 8 facts - link addition and subtraction. Include zero. Include concret and pictorial representations.

Subtraction – Take away/cross out. How many left? Introduce language rather than symbol. Taking away – use real life contexts. Include zero. Use First, then, now stories.

Take away – How many left?– use symbol/number sentence and continue to use stories and concrete anmd pictorial representations.

Subtraction on a number line – counting back.

Add or subtract 1 or 2. Use a variety of contexts.

Existing Vocabulary

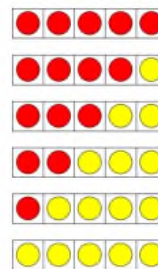
- Add, more, and
- Make, sum, total
- Altogether
- One more, two more...
- How many more to make...?
- How many more is....than...?
- How much more is...?
- Takeaway
- How many are left/left over?
- How many have gone?
- One less, two less....
- How many fewer is...than...?
- How much less is...?

New Vocabulary

- Part, Part, Whole
- Addition
- Number bonds/pairs
- Equals
- Is the same
- Missing number
- Plus
- Subtract

Times Tables

Count to 10 in 2s.



5 = 5 + 0

5 = 4 + 1

_ = _ + _

_ = _ + _

_ = _ + _

_ = _ + _

Planning Links

Power Maths, White Rose, Maths No Problem, Aspire Maths White Rose Scheme of Work:

<https://assets.whiterosemaths.com/new-schemes/Y1%20Autumn%20Block%202%20SOL%20Addition%20and%20Subtraction%20within%2010.pdf>

NCETM Teacher Guide and Representations:

<https://www.ncetm.org.uk/classroom-resources/primm-1-02-introducing-whole-and-parts-part-part-whole/>

<https://www.ncetm.org.uk/classroom-resources/primm-1-01-comparison-of-quantities-and-measures/>

<https://www.ncetm.org.uk/classroom-resources/primm-1-07-addition-and-subtraction-strategies-within-10/>

<https://www.ncetm.org.uk/classroom-resources/primm-1-05-additive-structures-introduction-to-aggregation-and-partitioning/>

<https://www.ncetm.org.uk/classroom-resources/primm-1-06-additive-structures-introduction-to-augmentation-and-reduction/>

Resources

Rekenreks, Objects, Counters/cubes, Bead strings, Ten frames
 Gordons Maths Games, Mathletics, TTRockstars
 BBC Super Movers <https://www.bbc.co.uk/teach/supermovers/ks1-maths-collection/z6v4scw>