



Mathematics Medium Term Plan

Year 1 Spring Term Unit 2 Addition and Subtraction within 20

Focus: Addition and Subtraction

Time: 3 weeks

Times Tables 1NF-2

10x table - Recall multiples, missing numbers, division

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

NC:

Represent and use number bonds and related facts within 20.

Read, write and interpret mathematical statements involving addition, subtraction and equal signs.

Add and subtract one and two digit numbers to 20 including zero.

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

Concept Sequence

Add by counting on within 20 Add by counting on from given number – start with largest number. Note addition is commutative. Don't include start number when counting on.

Add ones using number bonds – alternative to counting on eg. $4+2=6$ so $14+2=16$.

Find and make bonds to 20 - work systematically using tens frames and part-whole. Use bonds to 10 to find bonds to 20.

Doubles – add two equal quantities. See examples of doubles and non-doubles.

Near Doubles – use doubles for efficiency. Eg. $6+7=6+6+1$ or $7+7-1$.

Subtract ones using number bonds eg. $7-5=2$ so $17-5=12$. Complete alongside tens frames/part-whole models/base 10.

Subtraction – not crossing ten – include use of subtraction symbol, within 20. Look at use of zero. Use part-whole model.

Subtraction – counting back. Include crossing ten. Include use of zero. Link to 'first, ten, now' stories.

Subtraction – find the difference – new concept. Make comparisons – How many more...?

Related Facts - explore addition and subtraction fact families to 20. Recognise that addition and subtraction are inverses. Begin to show addition is commutative but subtraction is not. Use concrete resources and pictures. Write sentences with '=' at start/end.

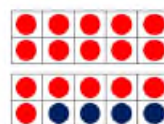
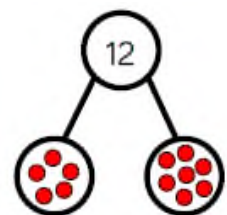
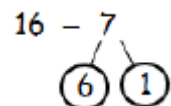
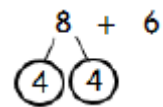
Missing number problems – use inverse operations – bar models/part-whole models. Link with 'first, then, now' stories.

Existing Vocabulary

- Add, more, and
- Make, sum, total
- Altogether, double, near
- 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...?
- Difference between

New Vocabulary

- Addition
- Part, part, whole
- Plus
- Subtract
- Equals, is the same as
- Number bonds/pairs
- Missing number



There are ___ red counters.
 There are ___ blue counters.
 Altogether there are ___ counters.
 ___ + ___ = ___
 ___ + ___ = ___

Planning Links

- Power Maths
- Maths No Problem/Aspire Maths
- White Rose Scheme of Work: <https://assets.whiterosemaths.com/new-schemes/Year%201%20Spring%20Block%202%20SOL%20Addition%20and%20subtraction%20within%2020.pdf>
- NCETM Teacher Guide and Representations: <https://www.ncetm.org.uk/classroom-resources/primm-1-10-composition-of-numbers-11-19/>
- <https://www.ncetm.org.uk/teaching-for-mastery/mastery-materials/primary-mastery-professional-development/number-addition-and-subtraction/>

Resources

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

