



R2P: 5NF-2

NC

Add and subtract numbers mentally with increasingly large numbers.

Add and subtract whole numbers with more than 4 digits, including formal written methods.

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

Focus: Addition and Subtraction

Time: 3 weeks

Times Tables 4NF-1, 5NF-1

Consolidate and practice all multiplication and division facts to 12x12 – any order, missing numbers, fractions.

Use multiplication and division facts to derive associated facts.

Develop multiplicative reasoning - links between multiplication, division and fractions.

Concept Sequence

Mental Strategies – known facts. Compensation and adjustment.

Recap addition/subtraction column methods for Y4. One exchange and more than one exchange.

Add whole numbers with more than 4 digits. Column addition 5/6 digits – begin with 5 digits and move to 6 digits. Stage exchanging. Use manipulatives and pictorial representations to support problem solving.

Subtract whole numbers with more than 4 digits. Column subtraction 5/6 digits – begin with 5 digit and move to 6 digits. Focus on staged exchange and use of 0 as a place holder.

Round to check answers.

Inverse operations – addition and subtraction - Use inverse to check answers. Fact families.

Problems (using measures) – Multi-step problems – use different contexts and forms (bar models and word problems).

Compare calculations. Use symbols.

Missing numbers. Revise use of inverse operations.

45,536 – 8,426

TTh	Th	H	T	O
45	53	6		
			8	4
				2
				6

Existing Vocabulary

Addition

Add, more, and, make, sum, total

Altogether, double, near double

Half, halve

One more, two more...ten more..

One hundred more..

How many more to make..?

How many more is....than...?

How much more is...?

Subtract, takeaway

How many are left/left over?

How many have gone?

One less, two less, ten less....

One hundred less

How many fewer is...than...?

How much less is...?

Difference between

Equals, is the same as

Number bonds/pairs/facts

Missing number

Tens boundary, hundreds boundary

Resources

Number lines, Place Value Grid, Place Value counters.

Gordons Maths Games, Mathletics,

TTRockstars

BBC Super Movers

<https://www.bbc.co.uk/teach/super-movers/ks2-collection/zr4ky9q>

New Vocabulary

Ten thousand boundary, hundred thousand boundary

Ten thousand more/less...

One hundred thousand

more/less..

Planning Links

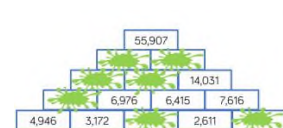
White Rose, Power Maths, Maths No Problem/Aspire Maths

White Rose Scheme of Work:

<https://assets.whiterosemaths.com/new-schemes/Y5%20Autumn%20Block%202%20SOL%20Addition%20and%20subtraction.pdf>

NCETM Teacher Guide and Representations:

<https://www.ncetm.org.uk/teaching-for-mastery/mastery-materials/primary-mastery-professional-development/number-addition-and-subtraction/>



Th	H	T	O
45	53	6	
			8
			4
			2
			6