



# Orton Wistow Primary School – Curriculum Plan



Subject : Maths

Year : 2

Unit : Addition and Subtraction



## Vocabulary

Define the word and include etymology if useful.

### Addition

Add, more, and, make, sum, total, altogether

Double

Near double

Half, halve

One more, two more... ten more

### Subtraction

Take away, minus, fewer, less, difference between

One less, two less... ten less

### Equals

Is equal to, is the same as

Number bonds

Number pair

Number facts

Part, part, whole

Partition

Recombine

Missing number

Tens boundary

Commutative



## Knowledge

What children will know

Learning

Teaching

Assessment

Remembering

Telling

Testing

- Pupils know number bonds to 100.
- Pupils will know that addition of two-digit numbers can be done in any order and subtraction of one number from another cannot.
- Pupils will know when it is appropriate to add/subtract when solving word problems
- Children know various ways to check their answers, including using the inverse operation
- Children know that when adding 10, the tens digit changes while the ones digit remains the same
- Children know to always start from the ones column when using the column method for addition and subtraction

### Stem Sentences

I know that \_\_\_\_ plus \_\_\_\_ is equal to \_\_\_\_ (single digit fact) so \_\_\_\_ plus \_\_\_\_ is equal to \_\_\_\_

I know that \_\_\_\_ minus \_\_\_\_ is equal to \_\_\_\_ (single digit fact) so \_\_\_\_ minus \_\_\_\_ is equal to \_\_\_\_

When we find ten more, the tens digit changes and the ones digit stays the same.



## Understanding

What children will understand

Learning

Teaching

Assessment

Practising

Coaching

Observing

- Pupils will understand the inverse relationship between addition and subtraction
- To understand regrouping or renaming of ones
- Pupils will understand calculations with similar digits, e.g.  $2+7=9$  so  $20+70=90$
- Pupils understand the link between single digit bonds and tens bonds
- Children understand what happens to a number when adding 10 using a 100 square
- Pupils understand the principles of commutativity to efficiently add 3 one-digit numbers



## Skills

What children will be able to do

Learning

Teaching





Assessment

Reflecting

Facilitating

Evaluating

- Can use place value and number facts to solve problems
- Recall and use addition and subtraction facts to 20
- Can derive and use related facts up to 100
- Add and subtract numbers using concrete objects and pictorial representations
- Can mentally add  $TO+O$ ,  $TO+T$ ,  $TO+TO$  and  $O+O+O$
- Subtract  $TO-O$ ,  $TO-TO$ ,  $TO-10$ ,
- To add and subtract 2-digit numbers with renaming
- Pupils can use bar modelling to represent problems
- Solve multi-step problems using bar modelling
- Pupils can line up 2-digit numbers and 1-digit numbers using Place Value columns accurately
- Pupils can exchange 10 ones for 1 ten

																					
Vocabulary	Knowledge What children will know	Understanding What children will understand	Skills What children will be able to do																		
Define the word and include etymology if useful.	<table><tr><th>Learning</th><th>Teaching</th><th>Assessment</th></tr><tr><td>Remembering</td><td>Telling</td><td>Testing</td></tr></table>	Learning	Teaching	Assessment	Remembering	Telling	Testing	<table><tr><th>Learning</th><th>Teaching</th><th>Assessment</th></tr><tr><td>Practising</td><td>Coaching</td><td>Observing</td></tr></table>	Learning	Teaching	Assessment	Practising	Coaching	Observing	<table><tr><th>Learning</th><th>Teaching</th><th>Assessment</th></tr><tr><td>Reflecting</td><td>Facilitating</td><td>Evaluating</td></tr></table>	Learning	Teaching	Assessment	Reflecting	Facilitating	Evaluating
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	<p>When we find ten less, the tens digit changes and the ones digit stays the same.</p> <p>We had ____ tens and ____ ones. Ten more gives us ____ tens and ____ ones.</p> <p>We had ____ tens and ____ ones. Ten less gives us ____ tens and ____ ones.</p> <p>When we add three numbers, the total will be the same whichever pair we add first.</p> <p>If you change the order of the addends, the sum remains the same.</p> <p>We can look for pairs to make 10 first then add the remaining number.</p>																				



# Orton Wistow Primary School – Curriculum Plan



**Subject :** Maths

**Year :** 2

**Unit : Number and Place Value**



## Vocabulary

**Define the word and include etymology if useful.**

**One hundred**  
**Equivalent to** – is equal in value to/ has the same value  
**Most**  
**Least**  
**Multiple** - a number that may be divided by another a certain number of times without a remainder.  
**Sequence** - a particular order in which related things follow each other.  
**> Greater than**  
**<Less than**  
**Tens, hundreds,**  
**One -, two -, three - digit number**  
**Partition** – break apart a numbers into smaller units  
**Recombine** – to reassemble smaller units back into the original number  
**Place value** – the value of where a digit is in a number  
**Exchange** – regrouping ten ones for one ten or one ten for ten ones



## Knowledge

What children will know

Learning	Teaching	Assessment
Remembering	Telling	Testing

- Pupils know the place value of each digit in a two-digit number
- Pupils know how a number is made up, e.g. 42 is 4 tens and 2 ones or 42 ones
- Pupils know that there are different ways to partition numbers
- Pupils know where numbers lie on a number line to 100
- Pupils know that when looking at a hundred square, the numbers increase by 1 as you read from left to right and increase by 10 as you read down the square
- Pupils know that numbers that can be made out of groups of two are even numbers; numbers that cannot are odd
- Pupils know that even numbers can be partitioned into two odd parts or two even parts
- Pupils know that odd numbers can be partitioned into one odd part and one even part



## Understanding

What children will understand

Learning	Teaching	Assessment
Practising	Coaching	Observing

- Pupils understand that numbers can be partitioned in different ways, e.g. 58 is made up of 5 tens and 8 ones, 4 tens and 18 ones or 2 tens and 38 ones
- Pupils understand the place value of 2-digit numbers
- Pupils understand which digit to look at when comparing numbers







## Skills

What children will be able to do

Learning	Teaching	Assessment
Reflecting	Facilitating	Evaluating

- Count in steps of 2, 3 and 5 from 0
- Count in steps of 10 from any number forwards and backwards
- Compare and order numbers from 0 to 100
- Use the <, > and = symbols
- Read numbers to 100 in words and figures
- Write numbers to 100 in words and figures
- Use concrete materials and pictorial representations to show numbers up to 100
- Can use part - whole models to show how numbers can be partitioned and recombined
- Recognise odd and even numbers



			
Vocabulary	Knowledge	Understanding	Skills
Define the word and include etymology if useful.	What children will know	What children will understand	What children will be able to do
	Learning Remembering	Teaching Telling	Assessment Testing
	Learning Practising	Teaching Coaching	Assessment Observing
	Learning Reflecting	Teaching Facilitating	Assessment Evaluating
	Stem Sentences		
	There are ____ tens and ____ ones. The number is ____.		
	____ is greater than ____.		
	____ is less than ____.		
	Ten ones make one ten.		
	Ten tens make one hundred.		

The NCETM have designed materials to support teachers to develop their subject knowledge and understand the learning steps required in order to successfully teach for mastery. The curriculum has been split into a number of areas called 'spines'.

Each spine has a series of Teacher Guidance documents and a PowerPoint containing the relevant representations which should be used to teach that area of maths. Please refer to these documents alongside this Curriculum Plan.

These Spines can be found on Google Drive:

<https://drive.google.com/drive/u/0/folders/1Atxv73hPmXLKFm1tKtm3EHOq5h1UW9kX>

White Rose Maths Resources can be found on Google Drive:

<https://drive.google.com/drive/u/0/folders/1-SLs60Nea84ECjPB5P1vDqzR9tQ57FCh>

