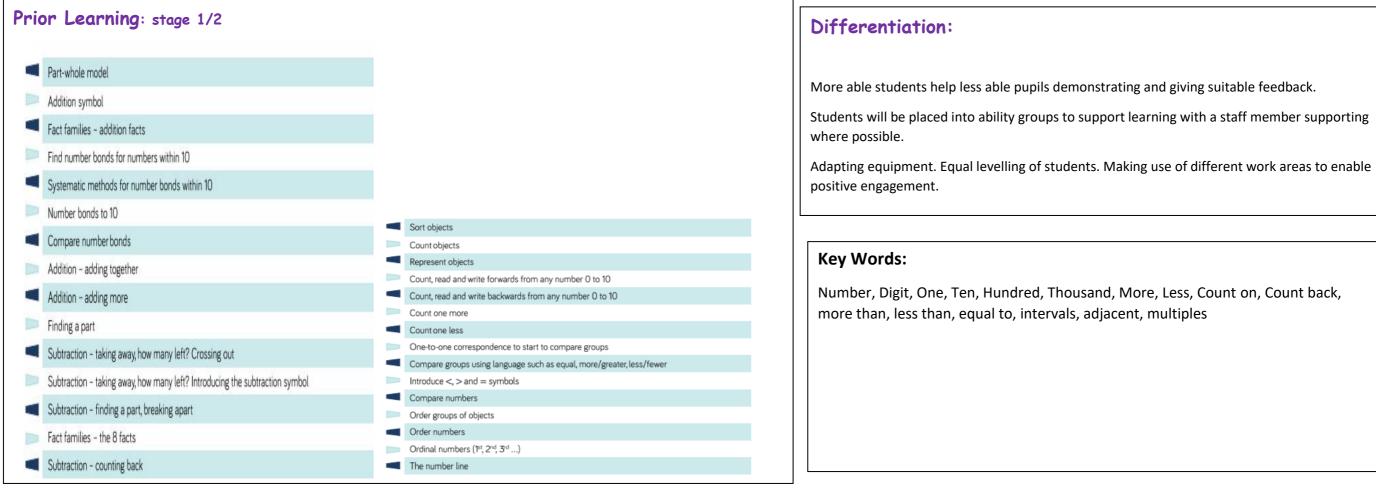
#### **O.Hoare and Ben Inman**

Subject:	Activity: Place Value	Activity: Place Value		
Maths PBL				
Class:	Teacher:Ollie Hoare Ben Inman	Term: 1		
Years: 10 and 11	Den Innun			
	Learning Environments	Resources:		
	Class room based with availability to outside learning space.	Maths equipment inclusive of base ten, ones and hundreds. N access to White Rose and My Maths.		





Number lines, 100 square, calculators, IT

# End of term expectations:

### Stage 2

Counts in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.

Recognises the place value of each digit in a two-digit number (tens, ones)

Identifies, represents and estimates numbers using different representations, including the number line

Uses reasoning about place value and number facts to solve problems

Solves problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures

Solves problems with addition and subtraction applying their increasing knowledge of mental and written methods.

Adds and subtracts numbers using concrete objects, pictorial representations, and mentally, including a 2-digit number and 1's

Shows that addition of two numbers can be done in any order and subtraction of one number from another cannot

Recognises and uses the inverse relationship between addition and subtraction and use this to check calculations and solves missing number problems

Stage 3

Compares and orders numbers up to 1000

Recognises the place value of each digit in a three-digit number (hundreds, tens, ones)

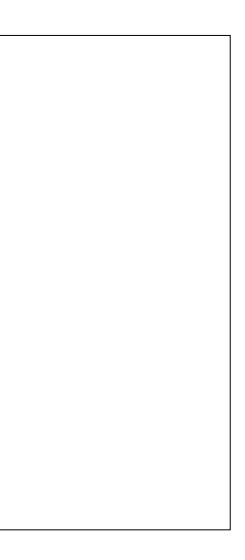
Identifies, represents and estimates numbers using different representations

Solves number problems and practical problems involving these ideas.

Adds and subtracts numbers mentally, including a three-digit number and ones

Adds and subtracts numbers with up to three digits, using formal written methods of columnar addition and subtraction

Solves problems, including missing number problems, using number facts, place value, and more complex addition and subtraction



	Resources:
ast papers: EL2/EL3	BBC Skillswise ma
ower: reader and scribe	Past papers: EL2/
	Pens/rulers/scrap
ower: works 1-1 with TA	
ledium: works in small groups	White rose:
gher: works independently	powerpoint
ork differentiated stage 1-4 pupil asset	teaching slides
	true or false shee
ower: works 1-1 with TA	White rose:
ledium: works in small groups	Teaching video: A
igher: works independently	powerpoint
ork differentiated stage 1-4 pupil asset	worksheets year 2
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ledium: works in small groups	powerpoint
igher: works independently	teaching slides
ork differentiated stage 1-4 pupil asset	true or false sheet
	White Rose Teach
	powerpoint
	worksheets
ower: works 1-1 with TA	White rose:
ledium: works in small groups	powerpoint
igher: works independently	teaching slides
ork differentiated stage 1-4 pupil asset	true or false sheet
	Aut3.2.3 - Numbe
	true or false sheet
	powerpoint
	worksheets
ower: works 1-1 with TA	Multiples mymath
ledium: works in small groups	Counting 1: Lily pa
igher: works independently	Counting 3: scarve
ork differentiated stage 1-4 pupil asset	
	Count in 50's:
	https://vimeo.com
	true or false sheet
	powerpoint
	worksheets

naths video link on place value 2/EL3 ap paper/pencils eet : Aut3.1.2 - 10s and 1s using addition r 2/3 eet ching video: Aut3.1.3 - Hundreds eet ber line to 100 eet aths pads game onwards rves game onwards <u>com/457790310</u> eet

Stage 14	End of term mock exam: properties of number.		Past Exam paper.
	<ol> <li>I can write numbers up to twenty.</li> <li>I can write numbers up to a hundred</li> <li>I can read numbers up to a thousand.</li> </ol>	Lower: Reading/writing 2 digit numbers worksheet	Twinkl worksheets
Stage 13	We are learning to write numbers as words WILF:	Upper: Reading/writing 4 digit numbers worksheet Medium: Reading/writing 3 digit numbers worksheet	https://www.yout Twinkl powerpoin
			Compare objects: https://vimeo.com true or false sheet powerpoint worksheets
Stage 12	<ul> <li>We are learning to compare objects</li> <li>1. I can say what is greater than</li> <li>2. I can say what is less then</li> <li>3. I can say what is equal to</li> </ul>	Lower: works 1-1 with TA Medium: works in small groups Higher: works independently Work differentiated stage 1-4 pupil asset	White rose: powerpoint teaching slides true or false sheet
Stage 11	<ul> <li>We are learning to compare and order numbers</li> <li>1. I can order 3 digit numbers</li> <li>2. I can compare and order numbers up to a 1000</li> </ul>	Lower: works 1-1 with TA Medium: works in small groups Higher: works independently Work differentiated stage 1-4 pupil asset	Aut3.3.3 - Orderin Mymaths interact
Stage 10	<ul> <li>We are learning to compare and order numbers</li> <li>1. I can order 3 digit numbers.</li> <li>2. I can compare and order numbers up to a 1000.</li> </ul>	Lower: works 1-1 with TA Medium: works in small groups Higher: works independently Work differentiated stage 1-4 pupil asset	White rose: powerpoint teaching slides true or false sheet Mymaths interacti
Stage 9	<ul> <li>We are learning to compare numbers</li> <li>1. I can say what is greater than between 2 sets of numbers</li> <li>2. I can say what is less then between 2 sets of numbers</li> <li>3. I can say what is equal to.</li> </ul>	Lower: works 1-1 with TA Medium: works in small groups Higher: works independently Work differentiated stage 1-4 pupil asset	Compare numbers https://vimeo.com true or false sheet powerpoint worksheets
Stage 8	<ul> <li>We are learning to make a place value grid</li> <li>1. I can demonstrate numbers up to a hundred</li> <li>2. I can demonstrate numbers up to a thousand</li> <li>3. I can demonstrate numbers up to ten thousand</li> </ul>	Lower: works 1-1 with TA Medium: works in small groups Higher: works independently Work differentiated stage 1-4 pupil asset	Paper cups Place value cup vio https://www.you
Stage 7	<ol> <li>Recognise the place value of each digit in a three-digit number.</li> <li>We are learning to use a place value chart         <ol> <li>I can use a place value grid.</li> <li>I can recognise the place value of each digit in a two-digit number</li> <li>Recognise the place value of each digit in a three-digit number</li> <li>Recognise the place value of each digit in a four-digit number</li> </ol> </li> </ol>	Work differentiated stage 1-4 pupil assetLower: works 1-1 with TAMedium: works in small groupsHigher: works independentlyWork differentiated stage 1-4 pupil asset	Year 3: teaching so Year 3: Education Place value chart to Year 2: Education Education city wo Place value cards
Stage 6	<ul> <li>We are learning to use a place value chart</li> <li>1. I can use a place value grid</li> <li>2. I can recognise the place value of each digit in a two-digit number.</li> <li>3. Recognise the place value of each digit in a three digit number.</li> </ul>	Lower: works 1-1 with TA Medium: works in small groups Higher: works independently Work differentiated stage 1-4 pupil asset	Year 2: Aut2.3.2 - True or false worksheet

2 - Using a place value chart g slide, Numbers to 1000 on a place value grid on city – surfs up worksheet. rt teaching slide on city: hang tenths interactive game. worksheet: hang tenths. ls video outube.com/watch?v=Kpj7Rt2qT6o&t=1s ers: eet eet active lesson activities ring numbers active lesson activities eet ts: om/457760059 eet outube.com/watch?v=DBZNK\_CEVZw oint ets

## Pupil Asset

Stage 4: counts in multiples of 6,7,9,25 and 1000; orders and compares numbers beyond 1000; recognises place value of each digit in a four digit number.

Stage 3: <sup>1</sup> Counts from 0 in multiples of 4,8,50 and 100 more or less than a given number; recognises place value of each digit in a three digit number.

Stage 2: counts in steps 2,3 and 5 from 0, and in tens from any number, forward or backward; reads and writes to at least 100 in numerals and in words; recognises place value of each digit in a two digit number; compares and orders numbers from 0-100; using: < > and =

Year 2	Year 3	Year 4
Counting forwards and backwards within 20	Represent numbers to 100	Represent numbers
Tens and ones within 20	Tens and ones using addition	100s, 10s and 1s
Counting forwards and backwards within 50	Hundreds	Number line to 1,00
Tens and ones within 50	Represent numbers to 1,000	Round to the neare
Compare numbers within 50	100s, 10s and 1s (1)	Round to the neare
Count objects to 100 and read and write numbers in numerals and words	100s, 10s and 1s (2)	Count in 1,000s
Represent numbers to 100	Number line to 1,000	
Tens and ones with a part-whole model	Find 1, 10, 100 more or less than a given number	1,000s, 100s, 10s a
Tens and ones using addition	Compare objects to 1,000	Partitioning
Use a place value chart	Compare numbers to 1,000	Number line to 10,0
Compare objects	Order numbers	Find 1, 10, 100 more
Compare numbers	Count in 50s	1,000 more or less
<ul> <li>Order objects and numbers</li> </ul>		Compare numbers

