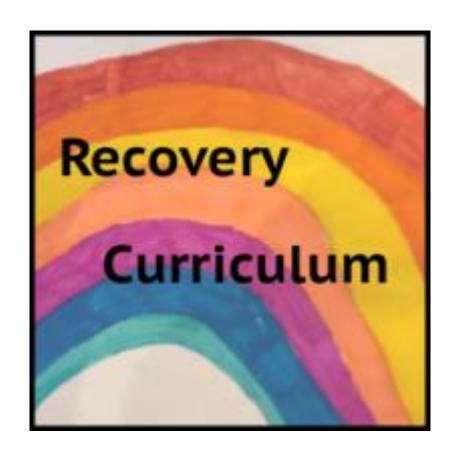
## RECOVERY CURRICULUM

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Updated:



Subject:	Mathematics	Teacher:	APL
Year:	11	Class:	C sets
Unit title:	Number Properties		
Duration:	2 weeks (9 lessons)		

## Intent

Intent Statement - at Landau Forte Amington, we believe learning powerful knowledge helps students achieve and creates a fairer society. How are you trying to accomplish this, with this unit/topic?

This topic will focus on student recovery following the pandemic, which has resulted in students experiencing the following possible losses: routine, structure, friendship, opportunity and freedom. It will support students academically, socially and emotionally, in order to transition students back to Academy life and support with the issues resulting from loss.

Aims - what do you want pupils to be able to know and do by the time they finish this unit/topic?

Understand and use a range of facts about number properties to solve problems

Find factors, multiples, HCF and LCM of numbers

Round numbers accurately

Order lists of numbers (integers, decimals, negatives)

Academy values – at Landau Forte Amington, we want students to be ambitious, brave and kind. How are these values promoted in this PoS?

- Ambitious aims to quickly and effectively fill gaps then progress to existing SOL
- Brave encourage students to persevere and show resilience through problem solving task
- Kind Culture of error fostered, classroom rules clearly established to support learning without ridicule

• Kind - Condie of end rostered, classicontroles clearly established to support learning without halcole			
Content – what is being covered, ensuring breadth & depth?	National Curriculum/Exam Specification - how does the content		
	link to the NC or Exam Spec?		
A range of number skills, cumulative from previous 5 years of learning, high			
frequency topics in exams			
Covers a range of skills and content to "recover" lost learning and further			
develop student learning			

Powerful Knowledge - what powerful knowledge is included in this SoW? Consider what knowledge is it important for our students to know, so that when they leave school they can engage in and lead discussions, with people from the most advantaged backgrounds?

Place value (appreciation for size of numbers)
Appreciation for negative numbers in context
Ordering / sorting skills

<b>Implementation</b>				
	GAPS			
Identification – how are you going to identify the gaps in knowledge/skills?  MWB activities to assess existing knowledge Use of DNA to probe existing understanding	Triage – how are you going to rank order these gaps in knowledge/skills and 'fill' them, in order of importance?  Rank in order of severity (numbers affected) in order of progression (indicated by the order of aims listed above)			
Cold call questioning in lessons to gain insight into knowledge	The order of diffis listed above)			
KEY	CONCEPTS			
Key Concepts – what are the key concepts being taught?	<b>Progression</b> – how will studying these key concepts support progression to the traditional curriculum that has been planned?			
Place value, ordering, factors, multiples, primes, rounding	Bridges gaps from previous years, recap of high frequency topics to be assessed in exams, underpinning skills for many later units of work			
W	ELLBEING			
<b>Lockdown</b> – how will students share their experiences of lockdown?	<b>Social and Emotional</b> – how will student social and emotional health be supported?			
Encourage to look at how this might link to experiences in lockdown	Positive classroom atmosphere, opportunities to work as a team / group, whole class discussions			
RE-	-ESTABLISH			
<b>Learning Skills</b> – how are you going to re-establish the skills for learning?	<b>Relationships</b> – how are you going to re-establish classroom relationships?			
Model how to solve problems, explicit direction on strategies and skills, "thinking out loud"	Standards lesson first lesson back, learn names of students quickly (seating plans)			
OPF	PORTUNITIES			

<b>Discussion</b> – what are the discussion based opportunities?	Group – what are the group work based opportunities (while still		
	ensuring social distancing)?		
Maths team games or more complex problem/reasoning resources	Maths team games or more complex problem/reasoning resources provided for		
provided for each lesson to be discussed whole class in plenary / in groups	each lesson to be discussed in groups/pairs during deliberate practice		
during deliberate practice			

Deli	ivery	/			
		l) Lesson Type (classroom or blended for remote homework)	2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)	
		Classroom (whole sequence completed)		What Understand place value	Ī
		Blended (live and remote as independent study)	Recall questions based on number (mathsbot)	Why Fill in gaps, develop fluency and understanding  How Read and write numbers in words, identify value of digits in numbers	-
1	cycle:	4) New Material (previous learning/ new material)	5) Check for Understanding (questioning/checking)		
ı		<ul><li>Read numbers aloud</li><li>Change between words and digits</li><li>Identify value of given digit</li></ul>	MWB questions https://www.mathspad.co.uk/i2/teach.php ?id=writingNumbers1&p=5	6) Prepare for Practice (model/ scaffold)  Model using place value columns Provide place value grids for reference (scaffold)	) *=-
	of lessons in	7) Deliberate Practice (guided/ independent)	8) Feedback (light/deep)	9) Review (daily/monthly)	
	Number o	Worksheet practice https://www.mathspad.co.uk/txtBook/placeValueLowe rAttainers.php https://www.mathspad.co.uk/teach/worksheets/placeVa lue/readingWritingIntegers.php	Answers shared, self-assess	9) Review (daily/monthly)  Low stakes quiz	2.0
		1) Losson Type	O) DNIA	2) La gracia a Intentiona	
		1) Lesson Type     (classroom or blended for remote homework)	2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)	
		Classroom (whole sequence completed)		What multiply divide by 10, 100, 1000  Why Fill in gaps, develop fluency and	
2		Blended	Times table practice	understanding	
		(live and remote as independent study)		How multiply divide by 10, 100, 1000 using place value tables	
	N D	4) New Material (previous learning/ new material)	5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold)	5

		Multiply/divide by powers of 10	MWBs https://www.mathspad.co.uk/interactives/placeValue/ placeValue.php	Model using place value columns Provide place value grids for reference (scaffold)			
		7) Deliberate Practice (guided/ independent)	8) Feedback (light/deep)	9) Review (daily/monthly)	Snc		
		Worksheet questions - mathsbot http://www.greatmathsteachingideas.com/2012/02/26/ multiplying-and-dividing-by-10-100-and-1000-who- wants-to-be-a-millionaire/	Answers shared, self-assess	Diagnostic questions	Asynchronous (remote)		
		1) Lesson Type	2) DNA	3) Learning Intentions			
		(classroom or blended for remote homework)	(Do Now Activity/Reading)	(what, why & how)			
		Classroom (whole sequence completed)		What How to order lists of numbers			
		(whole sequence completed)  Blended	Recall questions based on last couple of	Why Fill in gaps, develop fluency and understanding		Fill in g under	
		(live and remote as independent study)	lessons (mathsbot)	How Order lists of integers, negative num or decimal numbers	bers		
	:e:	4) New Material (previous learning/ new material)	5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold)	snou		
3	Number of lessons in cycle:	<ul><li>Ordering lists of large numbers</li><li>Ordering decimals</li><li>Ordering negatives</li></ul>	MWBs	Decimals have same digits (using 0s) Number line used for negatives Refer to place value columns for large numbers	Synchronous (live)		
	fles	7) Deliberate Practice (guided/ independent)	8) Feedback (light/deep)	9) Review (daily/monthly)	SUC		
	o je	Worksheet practice	Answers shared, self-assess	Spot the mistake	rond ote)		
	ğur	Followed by https://nrich.maths.org/7500			Asynchronous (remote)		
	ž				Asy (I		
			0.5				
		1) Lesson Type     (classroom or blended for remote homework)	2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)			
4		Classroom (whole sequence completed)		What Round accurately to nearest 10, 100, 10 up to 2dp	00 or		
		Blended	https://donsteward.blogspot.com/2016/11/puzzle-square.html	Why Fill in gaps, develop fluency and understanding			
			(live and remote as independent study)		How Round accurately to nearest 10, 100, 100 up to 2dp	00 or	

	sons in cycle:	4) New Material (previous learning/ new material)  • Reminder of rounding rules  7) Deliberate Practice	5) Check for Understanding (questioning/checking)  MWBs  8) Feedback	6) Prepare for Practice (model/ scaffold)  Modelled example  9) Review	
	Number of lessons in	(guided/ independent)  https://www.mathspad.co.uk/teach/worksheets/rounding/roundingNearest10.php  https://www.mathspad.co.uk/teach/worksheets/rounding/codeBreakerDecimalPlaces.pdf	(light/deep)  Answers shared, self-assess	(daily/monthly)  https://www.mathspad.co.uk/teach/worksheets/rounding/roundingNearest10.php	
		Lesson Type     (classroom or blended for remote homework)	2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)	
		Classroom (whole sequence completed)  Blended (live and remote as independent study)	Recall questions based on number (MathsBot)	What Exam practice/technique  Why Improve exam technique, revision of key topics, preparation for Nov mocks  How Improved score in practice papers	
5	ons in cycle:	4) New Material (previous learning/ new material) Review of a range of skills covered in past week / past year	5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold)	
	Number of lessons in	7) Deliberate Practice (guided/ independent) First 20 marks – non calculator paper (in pairs)	8) Feedback (light/deep) Whole class marking, share the mark scheme, complete tracking sheets – www, ebi	9) Review (daily/monthly)  Self-marked at end, scores tracked by teacher, record most common errors for focus in DNAs next week	
		1) Lesson Type (classroom or blended for remote homework)	2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)	
6		Classroom (whole sequence completed)  Blended (live and remote as independent study)	Targeted DNA (last week + problem topics from exam practice)	What Know the meaning of and recognise prime numbers Why Fill in gaps, develop fluency and understanding	

				How Prime number investigation	
	Is in cycle:	4) New Material (previous learning/ new material) Prime number investigation	5) Check for Understanding (questioning/checking)  MWBs https://www.mathspad.co.uk/interactives/primeNumb ers/primeNumbers.php	6) Prepare for Practice (model/ scaffold)  Modelled example	(live)
	Number of lessons in	7) Deliberate Practice (guided/ independent)  Prime number investigation Followed by The 'Prince Charles game'	8) Feedback (light/deep) Share answers, self assess	9) Review (daily/monthly)	(remote)
		1) Lesson Type (classroom or blended for remote homework)	2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)	
		Classroom (whole sequence completed)  Blended (live and remote as independent study)	Targeted DNA (last week + problem topics from exam practice)	What List factors of numbers  Why Fill in gaps, develop fluency and understanding	
		4) New Material	5) Check for Understanding	How Identify factors via factor bug, identify HCF  6) Prepare for Practice	
7	ons in cycle:	<ul> <li>(previous learning/ new material)</li> <li>Factor definition</li> <li>Factor finding</li> <li>HCF</li> </ul>	(questioning/checking) https://www.mathspad.co.uk/interactives/factors/fact ors.php	6) Prepare for Practice (model/ scaffold)  Model factor bug or paired listing Emphasis on working systematically	(live)
	Number of lessons	7) Deliberate Practice (guided/ independent) Worksheet practice – Mathsbot	8) Feedback (light/deep) Share answers, self-assess	9) Review (daily/monthly) https://www.mathspad.co.uk/teach/linkedDocuments/factors/factorsWorksheet.php	(remote)
8		Lesson Type (classroom or blended for remote homework)	2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)	

		Classroom (whole sequence completed)  Blended (live and remote as independent study)	Targeted DNA (last week + problem topics from exam practice)	What List multiples of numbers / Solve problems involving multiples  Why Fill in gaps, develop fluency and understanding
		(live did remote as independent stody)		How Identify multiples / identify LCM problems
	<u>e</u> :	4) New Material (previous learning/ new material)	5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold)
	Number of lessons in cycle:	Definition Finding multiples & LCM	MWBs	(model/ scaffold)  Modelled example
	f lesso	7) Deliberate Practice (guided/ independent)	8) Feedback (light/deep)	9) Review (daily/monthly)
	oer o	https://www.mathspad.co.uk/resource.php?multiples	Share answers, self-assess	Factors, multiples, primes sort (Powerpoint)
	Numb	game - https://www.mathspad.co.uk/interactives/multiplesGam e/multiplesGame.php		(daily/monthly)  Factors, multiples, primes sort (Powerpoint)  (a)  (a)  (b)  (a)  (b)  (b)  (c)  (c)  (c)  (c)  (c)  (c
			0.5	
		Lesson Type (classroom or blended for remote homework)	2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)
		Classroom (whole sequence completed)	T	What Exam practice/technique
		Blended	Targeted DNA (last week + problem topics from exam practice)	Why Improve exam technique, revision of key topics, preparation for Nov mocks
		(live and remote as independent study)		How Improved score in practice papers
	: <u>e</u> :	4) New Material (previous learning/ new material)	5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold)
9	Number of lessons in cycle:	Review of a range of skills covered in past week / past year		6) Prepare for Practice (model/ scaffold)
	of less	7) Deliberate Practice (guided/ independent)	8) Feedback (light/deep)	9) Review (daily/monthly)
	Number	First 20 marks – non calculator paper (individual)	Whole class marking, share the mark scheme, complete tracking sheets – www, ebi	9) Review (daily/monthly)  Self-marked at end, scores tracked by teacher, record most common errors for focus in DNAs next week