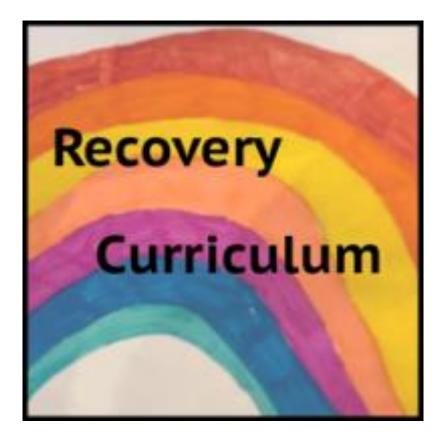
RECOVERY CURRICULUM

Subject: Mathematics Author: LEG Created: June 2020 Updated:



Subject:	Mathematics	Teacher:	LEG							
Year:	8	Class:	8 Higher							
Unit title:	actors, Multiples, Primes, Squares, Cubes									
Duration:	2 weeks (7 lessons)	2 weeks (7 lessons)								
Intent										
	- at Landau Forte Amington, we believe learning powerful knowle /ith this unit/topic?	dge helps stuc	lents achieve and creates a fairer society. How are you trying to							
	reedom. It will support students academically, socially, and emotion		experiencing the following possible losses: routine, structure, friendship, r to transition students back to Academy life and support with the issues							
Aims - what do yo	u want pupils to be able to know and do by the time they finish th	nis unit/topic?								
 Identify fa Find the h Write a nu Use prime 	 Understand the meaning of factors, multiples, and prime numbers Identify factors, multiples, and primes numbers, Find the highest common factor and lowest common multiple Write a number as a product of its prime factors Use prime factorisation to find the highest common factor and lowest common multiple via a Venn diagram 									
Academy values –	at Landau Forte Amington, we want students to be ambitious, br	ave and kind.	How are these values promoted in this PoS?							
 Brave – er 	aims to quickly and effectively fill gaps then progress to existing neourage students to persevere and show resilience through prob ture of error fostered, classroom rules clearly established to supp	lem solving ta								
Content – what is being covered, ensuring breadth & depth? National Curriculum/Exam Specification - how does the content link to the NC or Example 2 Spec?										
Covers a range of skills and content overlapping the Year 7 and Year 8 scheme of learning to "recover" lost learning and further develop student learning.										
	lge - what powerful knowledge is included in this SoW? Consider v ngage in and lead discussions, with people from the most advanta		ge is it important for our students to know, so that when they leave nds?							

Real life scenarios for LCM and HCF.

Implementation

	GAPS
Identification – how are you going to identify the gaps in knowledge/skills?	Triage – how are you going to rank order these gaps in knowledge/skills and 'fill' them, in order of importance?
MWB activities to assess existing knowledge Use of DNA to probe existing understanding	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	
KEY	CONCEPTS
Key Concepts – what are the key concepts being taught?	Progression – how will studying these key concepts support progression to the traditional curriculum that has been planned?
Prime numbers, Multiples, Factors, Squares and cubes.	Bridges gaps between Y7 and Y8 scheme of learning, builds using spiral curriculum already planned
w	YELLBEING
Lockdown – how will students share their experiences of lockdown?	Social and Emotional – 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
Learning Skills – how are you going to re-establish the skills for learning?	Relationships – 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)
OPP	ORTUNITIES

Discussion – 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 provided for	Maths team games or more complex problem/reasoning resources provided for each
each lesson to be discussed whole class in plenary / in groups during deliberate	lesson to be discussed in groups/pairs during deliberate practice
practice	

Deliv	ery							
		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)	$\mathbf{\nabla}$		What Why	Squares and Cubes Fill in the Gaps and develop fluency and		
		Blended (live and remote as independent study)		Targeted DNA	How	understanding. Answer questions involving squares and		
						cubes.		
1	:e:	4) New Material (previous learning/ new material)		5) Check for Understanding (questioning/checking)		 6) Prepare for Practice (model/ scaffold) 	nous (
	Number of lessons in cycle:	Recap previous learning, squares and cubes.		Identify squares and cubes on MWB	Squares and Cubes https://www.mathspad.co.uk/teach/worksheets/primeN umbers/usePrimes2.php		Synchronous (live)	
		7) Deliberate Practice (guided/ independent)		8) Feedback (light/deep)	9) Review (daily/monthly)		ous e)	
		Cubed Tarsia https://www.goteachmaths.co.uk/wp- content/uploads/2019/08/Cube-Numbers-Spot-the- Mistake-A4.pdf		Share answers and self-assess. Respond to verbal feedback.	https://ww content/up	t question styled review w.goteachmaths.co.uk/wp- bloads/2019/08/Cube-Numbers-Foundation- uestions-AQA-Small.pdf	Asynchronous (remote)	
	I				1			
		1) Lesson Type (classroom or blended for remote homewo	ork)	2) DNA (Do Now Activity/Reading)		3) Learning Intentions (what, why & how)		
		Classroom (whole sequence completed)	\checkmark		What	Triangular numbers		
2		Blended		Targeted DNA.	Why	Fill in gaps, develop fluency and understanding.		
		(live and remote as independent study)			How Answer questions involving triangle numbers			
	N N N	4) New Material (previous learning/ new material)		5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold)		Synch rono	

		New material – triangular numbers						
		7) Deliberate Practice (guided/ independent)		8) Feedback (light/deep)		9) Review (daily/monthly)	sno	
		https://nzmaths.co.nz/resource/triangular-numbers Triangular numbers investigation		Share and reflect on findings		ate findings, write a conclusion g the pattern of triangular numbers	Asynchronous	
		1) Lesson Type (classroom or blended for remote homewo	ork)	2) DNA (Do Now Activity/Reading)		3) Learning Intentions (what, why & how)		
		Classroom (whole sequence completed)	\checkmark		What	Highest Common Factor, Lowest Commo Multiple	on	Produ
		Blended (live and remote as independent study)		Targeted DNA (Including factors and multiples) □	Why	Fill in gaps, develop fluency and understanding.		Fill in under
					How	Answer questions involving HCF and LCN	N	Use a prime
3	.: .:	4) New Material (previous learning/ new material)		5) Check for Understanding (questioning/checking)		6) Prepare for Practice (model/ scaffold)	snou	
	Number of lessons in cycle:	Highest Common Factor Lowest common multiple		MWB	https://ww	olution example. /w.goteachmaths.co.uk/wp- oloads/2019/03/HCF-LCM-Listing-Card- f.pdf	Synchronous	
	f les	7) Deliberate Practice		8) Feedback		9) Review	sn	
	iber o	(guided/ independent) Tarsia		(light/deep) Share collaboratively. Self-assess.		(daily/monthly) /w.mathspad.co.uk/teach/linkedDocuments/fa	Asynchronous	
	Num	https://www.goteachmaths.co.uk/wp- content/uploads/2019/03/HCF-LCM-Listing-Tarsi Standard.pdf	ia-		True or fai	DrFalse.php lse	Asyncl	
		1) Lesson Type (classroom or blended for remote homewo	ork)	2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)			
4		Classroom (whole sequence completed)	\mathbf{V}	Targeted DNA (Includes identifying prime numbers)	What	Product of prime factors		Produ

		Blended (live and remote as independent study)			Why How	Fill in gaps, develop fluency and understanding Use a factor tree to identify the produc prime factors	t of	Fill in g unders Use Ve
	cycle:	4) New Material (previous learning/ new material) Prime factorisation https://www.goteachmaths.co.uk/prime-factorisation in-index-form/	on-	5) Check for Understanding (questioning/checking) MWB questions		6) Prepare for Practice (model/ scaffold) nd scaffold prime factors linked in a (scaffold worksheet)	<mark>Synchronous</mark>	(live)
	Number of lessons in cycle:	7) Deliberate Practice (guided/ independent) Prime Composite spider diagram https://www.mathspad.co.uk/teach/worksheets/prim umbers/primeNumbersCompositesWorksheet.php Prime Factor Puzzle – Paired Work https://www.goteachmaths.co.uk/wp- content/uploads/2019/03/Prime-Factorisation- Worksheet-A-A5.pdf	neN	8) Feedback (light/deep) Share answers and peer-assess	https://ww content/up	9) Review (daily/monthly) et styled review ww.goteachmaths.co.uk/wp- ploads/2019/03/Prime-Factorisation-Index- undation-GCSE-Questions-Standard.pdf	Asynchronous (remote)	
		1) Lesson Type (classroom or blended for remote homewor	rk)	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 (Include HCF, LCM)	What Why How	Product of Prime factor to find HCF, LCI Fill in gaps, develop fluency and understanding Use Venn diagrams to find the HCF and		Solving Extend
5	Number of lessons in ovelor	4) New Material (previous learning/ new material) Create a Venn diagram from product of prime factors.	2	5) Check for Understanding (questioning/checking) https://nrich.maths.org/1153			c Synchronous	(live)
	Nur	 7) Deliberate Practice (guided/ independent) 		8) Feedback (light/deep)		9) Review (daily/monthly)	<mark>Async</mark>	hron

		Worksheet		Show call answers. Self-assess			
	I				1		
		1) Lesson Type (classroom or blended for remote homewo	ork)	2) DNA (Do Now Activity/Reading)		 Learning Intentions (what, why & how) 	
		Classroom (whole sequence completed)	\checkmark		What Why	Problem Solving involving HCF, LCM Develop problem solving skills	
		Blended (live and remote as independent study)		Targeted DNA	How	Answer worded questions involving HCF	,
	<u>е</u> :	4) New Material (previous learning/ new material)		5) Check for Understanding (questioning/checking)		6) Prepare for Practice (model/ scaffold)	snou
6	Number of lessons in cycle:	Worded questions to find HCF LCM.		https://www.mathspad.co.uk/interactives/highestCom monFactor/highestCommonFactor.php p2	https://www.mathspad.co.uk/interactives/lowestComm onMultipleTool/lowestCommonMultipleTool.php Annotate and highlight example question.		Synchronous (live)
	less	7) Deliberate Practice		8) Feedback	9) Review		SI
	r of	(guided/ independent)		(light/deep)	(daily/monthly)		nou ie)
	Numbe	Worded questions.		Share answers and self-assess			Asynchronous (remote)
				I			
		1) Lesson Type (classroom or blended for remote homewo	ork)	2) DNA (Do Now Activity/Reading)		 Learning Intentions (what, why & how) 	
		Classroom (whole sequence completed)	\checkmark		What	Problem Solving Develop problem solving skills	
7		Blended (live and remote as independent study)		Targeted DNA	Why How	Combined number questions	
,	r of	4) New Material (previous learning/ new material)	l	5) Check for Understanding (questioning/checking)		6) Prepare for Practice (model/ scaffold)	nous
	Number of	Previous material – recap number work where necessary for the class		MWB	Begin to scaffold worksheets, how can you break down the questions?		Synchronous (live)

7) Deliberate Practice (guided/ independent)	8) Feedback (light/deep)	9) Review (daily/monthly)	note)
Number puzzles combined	Show call and self-assess	Correct and annotate work.	(ren
https://www.mathspad.co.uk/teach/worksheets/factorisi			
ng/factorsMultiplesSpecialNumbers.php			snouo
			2
Mystery Grid			ichr
https://www.mathspad.co.uk/teach/worksheets/primeN			Asyn
umbers/factorsMultiplesPrimesMysteryGrids.php			As