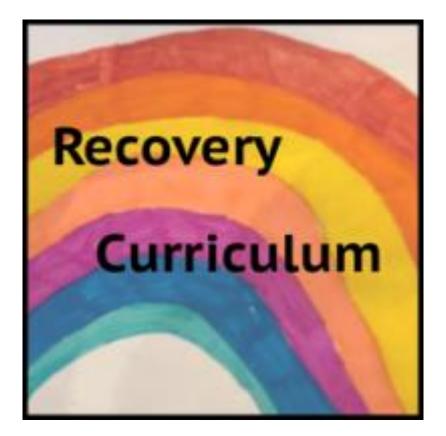
## **RECOVERY CURRICULUM**

Subject: Mathematics Author: Coral Atkins Created: June 2020 Updated:



Subject:	Mathematics	Teacher:	CLA						
Year:	9	Class:	9 Foundation						
Unit title:	Ratio & Proportion								
Duration:	2 weeks (8 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 d	o you want pupils to be able to know and do by th	e time they	y finish this unit/topic?						
<ul> <li>Simplify re</li> <li>Share interest</li> <li>Solve a re</li> <li>Understa</li> <li>Use prop</li> </ul>	<ul> <li>Simplify ratios</li> <li>Share into ratios</li> <li>Solve a range of problems involving ratios</li> <li>Understand the concept of proportion</li> <li>Use proportion to solve problems involving scaling</li> </ul>								
Academy val in this PoS?	ues – at Landau Forte Amington, we want students	to be amb	pitious, brave and kind. How are these values promoted						
<ul> <li>Ambitious – aims to quickly and effectively fill gaps then progress to existing SOL</li> <li>Brave – encourage students to persevere and show resilience through problem solving tasks</li> <li>Kind – Culture of error fostered, classroom rules clearly established to support learning without ridicule</li> </ul>									
Content – what is being covered, ensuring breadth & depth?			Curriculum/Exam Specification - how does the content e NC or Exam Spec?						
	Covers a range of skills and content overlapping the Year 8 and Year 9 SOLs 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?									
<ul><li>Value for</li><li>Scaling re</li></ul>	•		onversions oney problems						

Implementation	
	GAPS
Identification – how are you going to identify the gaps in knowledge/skills?	<b>Triage</b> – 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 Cold call questioning in lessons to gain insight into knowledge	Rank in order of severity (numbers affected) in order of progression (indicated by the order of aims 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?
Ratio notation, using ratios, proportionality	Bridges gaps between Yr8 and Yr9 SOLs, builds using spiral curriculum already planned
WI	ELLBEING
Lockdown – 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 (cooking at home)	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?	<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)
OPP	ORTUNITIES
<b>Discussion</b> – what are the discussion-based opportunities?	<b>Group</b> – what are the group work-based opportunities (while still ensuring social distancing)?
Maths team games or more complex problem/reasoning resources provided for each lesson to be discussed whole class in plenary / in groups during deliberate practice	Maths team games or more complex problem/reasoning resources provided for each lesson to be discussed in groups/pairs during deliberate practice

Dei	ivery		I	1		
		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)	Recall questions based on number		Ratio Notation & Simplifying Ratios	
		Blended	(MathsBot)	Why	Fill in gaps, develop fluency and understanding	
		(live and remote as independent study)		How	Write ratios, simplify ratios and use ra	tios
	c	4) New Material (previous learning/ new material)	5) Check for Understanding (questioning/checking)		6) Prepare for Practice (model/ scaffold)	SNOL
	i sr	1. Writing ratio to describe situations	MWBs	Modelled example in word problem		chror (live)
	of lessons in vcle:	2. Simplifying ratios by removing HCF	https://www.mathspad.co.uk/interactives/r atioEquivalence/ratioEquivalence.php			Synchronous (live)
		7) Deliberate Practice	8) Feedback	9) Review		
	oer 0	(guided/ independent)	(light/deep)	(daily/monthly)		
	N	https://www.mathspad.co.uk/teach/workshe ets/ratio/ratioNotation.php (builds to simplifying)	Share answers, self-assess	MWBs – sp	pot the mistake	Asynchronou s (remote)
		<ol> <li>Lesson Type (classroom or blended for remote homework)</li> </ol>	2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)		
	2	Classroom (whole sequence completed)		What	Sharing in a ratio	
		Blended	Countdown numbers round		Fill in gaps, develop fluency and understanding	
		(live and remote as independent study)		How	Able to share in a ratio	
0	د د	4) New Material (previous learning/ new material)	5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold)		) ) )
Number of lessons in	essons ir	Sharing in a ratio (2 parts) Sharing in a ratio (3 or more parts)	MWBs diagnostic questions	Bar model example / ADAM method example, include step by step guide		Synchronou s (live)
	er of le cvcle	7) Deliberate Practice (guided/ independent)	8) Feedback (light/deep)	9) Review (daily/monthly)		
	Numbe	Ratio Robberies	Share answers, self-assess	Word problem combining previous 2 lessons of work		Asynchronous (remote)

		1) Lesson Type (classroom or blended for remote homework)		2) DNA (Do Now Activity/Reading)		3) Learning Intentions (what, why & how)	
3	-	Classroom (whole sequence completed)		- Recall questions based on number (MathsBot)	What Why	Solving problems involving ratio Fill in gaps, develop fluency and	
		Blended (live and remote as independent study)			How	Find values given 1 value in a shared ratio	
	Number of lessons in cvcle:	4) New Material (previous learning/ new material)		5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold)		
		. Ratio given 1 value (box method)		Multiple choice quiz	Model w	vith boxes, include step by step guide	Synchrono us (live)
	in cv	(guided/ independent)		8) Feedback (light/deep)			chron Js
	Num	https://www.mathspad.co.uk/i2/teach.php?i d=ratioFoundationBooklet&p=19		Share answers, self-assess	GCSE style question		Asynchron ous
	1						
	2	<ol> <li>Lesson Type (classroom or blended for remote homework)</li> </ol>		2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)		
		Classroom (whole sequence completed)		- Low stakes quiz on ratio skills	What Why	Solving problems using proportion Useful in cooking, baking, chemistry	
		Blended (live and remote as independent study)			How	Scale a recipe up or down	•
1	<u> </u>	4) New Material (previous learning/ new material)		5) Check for Understanding (questioning/checking)		6) Prepare for Practice (model/ scaffold)	snor
4	Number of lessons in cvcle:	Scaling in context Identify a scale factor to scale a recipe (Unitary method may be applicable)		MWB questions			Synchronous (live)
	hber c	7) Deliberate Practice (guided/ independent)		8) Feedback (light/deep)		9) Review (daily/monthly)	onou ote)
	NUM	<ul> <li>Pythagoras' Menu (Pixi Maths)</li> <li>https://www.piximaths.co.uk/applied-ratio</li> </ul>		Share answers, self-assess	Spot the mistake		Asynchronou s (remote)
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	2	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)		- Recall grid (ratio, number, algebra)	What Why	Solve value for money problems Get the best deal when shopping	
		Blended (live and remote as independent study)			How	Work out cost per unit	
ons in cycle:	cle:	4) New Material (previous learning/ new material)		5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold)		
		Finding the best value for money		Diagnostic Questions MWB responses	Model with step-by-step guide Emphasis on price per unit (may scale up)		
	of less	7) Deliberate Practice (guided/ independent)		8) Feedback (light/deep)	9) Review (daily/monthly)		
	Number (	Deal or No Deal activity (in teams)		Share answers, self-assess, discuss misconceptions/common errors	10-mark exit quiz (mixed)		