REMOTE LEARNING MODULE

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



Subject:	Mathematics		Teacher (if applicable)):			
Year:	9		Ability/Class (if applica	ible): Higher			
Module title:	Ratio & Proportion						
Duration:	2 weeks 🔀	4 weeks	6 weeks	8 weeks 🗌	Other:		
Intent							
Intent Statem society. How o	ent - at Landau Forte Ar are you trying to accom	nington, we believe lear plish this, with this modul	ning powerful knowledge e?	e helps studer	nts achieve and creates a fairer		
This module is designed to be delivered remotely to allow students to continue to access a well-constructed and relevant curriculum to enable them to have appropriate maths skills to succeed in life. In particular, this module focuses on ratio and proportion which have significant links to real life, especially the arts, cooking and the use of money.							
Aims - what d	o you want pupils to be	able to know and do by	the time they finish this r	module?			
 Work with ratio notation Simplify ratios Share into ratios Solve a range of problems involving ratios Understand the concept of proportion Use proportion to solve problems involving scaling Compare costs to decide value for money 							
Academy values – at Landau Forte Amington, we want students to be ambitious, brave and kind. How are these values promoted in this module?							
 Ambitious – aims to quickly and effectively fill gaps then progress to existing SOL Brave – encourage students to persevere and show resilience through problem solving tasks Kind – Culture of error fostered, classroom rules clearly established to support learning without ridicule 							
Content – wh	at is being covered, ens	uring breadth & depth?	National Curriculum/Ex to the NC or Exam Spe	kam Specifica c?	tion - how does the content link		
Covers a range SOLs to "recover	of skills and content overlapp " lost learning and further de	ping the Year 8 and Year 9 evelop student learning	R2, R24, R4, R6				
Powerful Knowledge - what powerful knowledge is included in this module? 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 backarounds?							
Value forScaling re	money ecipes		ConversionsMoney problem	าร			

Implementation							
KEY CONCEPTS							
Key Concepts – what are the key concepts being taught?	Progression – how will studying these key concepts support progression to the next academic year, or key stage?						
Ratio notation, using ratios, proportionality	Bridges gaps between Yr8 and Yr9 SOLs, builds using spiral curriculum already planned						
LEARNING							
Synchronous – what are the synchronous aspects of the module, including new material taught?	Asynchronous – what are the asynchronous aspects of the module, including deliberate practice?						
 2 live lessons, 2 Q&A clinics and DIRT lesson after cycle 1. Ratio skills (revisit / new material) – with follow up Q&A clinic 2. Proportion skills (revisit / new material) – with follow up Q&A clinic 	6 hours of deliberate practice (booklet) Exit ticket for end of topic assessment						
ENG	AGEMENT						
Accessibility – how are you going to ensure students without ICT can engage with this module? Work pack will be printed and posted to students	Disengagement – how are you going to ensure students who arenot engaging with this module are identified and supported?MS Teams used to track and log submission of work, student, parental and tutorcontact when not completed. CL informed of repeated disengagement.						
FEEDBACK							
End of Module – what is the end of module assessment, which will be used to evaluate the knowledge and skills gained? Exit ticket to check key success criteria	Review Points – what takes place at the review points, to monitorthe progress of learners and provide feedback, or support?2 WeeksExit ticket at end of 2-week module						
Smplifying ratio	4 Weeks	x					
 Sharing in a ratio Ratio difference 	6 Weeks	x					
Reverse ratio	8 Weeks	x					
 Proportion (recipe) Inverse proportion 	Other	"Clinic" to take place once a week via MS Teams					

Del	ivery	/ (please note - a two week remote le	earr	ning module may only take one lesson (cycle)		
		1) Lesson Type (remote or blended)		2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)		
	4	Remote (live on MS Teams and remote as study) Blended (live in classroom and remote as study)		Recall practice (MathsBot displayed on arrival)	What How to use ratio, solving a range of problems using ratio		ems
				Last lesson, last week, last month grids for	vviiy	applicable in real life, develop fluency ar understanding	nd
				each asynchronous lesson	How	write a ratio, simplify a ratio, share in a ratio solve problems involving ratio	tio,
1	c	4) New Material (previous learning/ new material)		5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold)		onou e)
	ssons ir: :	Ratio notation; simplifying ratio; ratio given 1 value; ratio with difference given		Diagnostic questions used – answers in chat or held up on camera	Questions clearly modelled and scaffolded using a bar method, students asked to copy down for reference		Synchre s (liv
	r of le cvcle	7) Deliberate Practice (auided/independent)		8) Feedback (light/deep)	9) Review (daily/monthly)		ous)
	Number	Section 1 – notation & simplifying Section 2 – sharing in a ratio Section 3 – ratio given 1 value Section 4 – ratio given difference		Q&A clinic used to answer questions Solutions shared for students to self-assess, teacher will collate common errors through viewing submitted work and address in Q&A	Quiz at the end of the cycle (MS Forms)		Asynchron (remote
		1) Lesson Type (remote or blended)		2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)		
	4	Remote (live on MS Teams and remote as study)	\triangleleft	Recall practice (MathsBot displayed on	What	What is proportion, how to apply proporti context	on in
		Blended (live in classroom and remote as study)		Last lesson, last week, last month arids for	Why	Understand how proportional relationship important in real life (such as cooking), develop fluency and understanding	os are
				each asynchronous lesson	How	Scale recipes, solve rate of change probl	lems
2	c	4) New Material (previous learning/ new material)		5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold)		ive)
	Number of lessons in cycle:	Scale recipes up, scale recipes down, unitary method, inverse proportion problems, best buy problems		Diagnostic questions used – answers in chat or held up on camera	Questions clearly modelled and scaffolded, students asked to copy down for reference		Synch us (I
		7) Deliberate Practice (guided/ independent)		8) Feedback (light/deep)	9) Review (daily/monthly)		ous (
		 Section 5 – scaling recipes Section 6 – inverse proportion Section 7 – value for money problems 		Q&A clinic used to answer questions Solutions shared for students to self-assess, teacher will collate common errors through viewing submitted work and address in Q&A clinics	Quiz at the end of the cycle (MS Forms) Exit ticket for deep feedback submitted in session 8		Asynchron (remote

3		1) Lesson Type (remote or blended)		2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)		
	-	Remote (live on MS Teams and remote as study)	\ge		What		
		Blended (live in classroom and remote as study)			How		
	ions in cycle:	4) New Material (previous learning/ new material) DIRT – whole class feedback from exit ticket, address misconceptions and provide feedforward information		5) Check for Understanding (questioning/checking) Students to respond to common errors in chat feature	6) Prepare for Practice (model/ scaffold) Model examples of any concepts that have significant errors		Synchronous (live)
	Number of less	7) Deliberate Practice (guided/ independent) Guided – rectify mistakes on exit ticket Independent – feed forward tasks to build on errors identified in exit ticket		8) Feedback (light/deep) (Based on feedback)	9) Review (daily/monthly) n/a		Asynchronous (remote)