REMOTE LEARNING MODULE

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



Subject:	Mathematics		Teacher (if applicable	e):					
Year:	9		Ability/Class (if applica	able):	Foundation				
Module title:	Ratio & Proportion								
Duration:	2 weeks 🔀	4 weeks	6 weeks	8 wee	eks 🗌	Other:			
Intent									
		nington, we believe lear plish this, with this modul		ge help	os students achiev	ve 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	modul	eș				
 Simplify re Share interest Solve a re Understa Use prop 	 Simplify ratios Share into ratios Solve a range of problems involving ratios Understand the concept of proportion Use proportion to solve problems involving scaling 								
Academy val in this module		mington, we want stude	nts to be ambitious, brav	ve anc	l kind. How are th	hese values promoted			
 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/E to the NC or Exam Spe	•	pecification - how	w does the content link			
Covers a range of skills and content overlapping the Year 8 and Year 9 SOLs to "recover" lost learning and further develop student learning			R2, R24, R4, R6						
		knowledge is included ir			-	•			
students to kn backgrounds		eave school they can er	gage in and lead discu	issions,	with people from	n the most advantaged			
Value for Scaling re	money		ConversionsMoney probler	ms					

KEY	CONCEPTS			
Key Concepts – what are the key concepts being taught?	-	n – how will studying these key concepts support n 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			
LE	ARNING			
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 are not engaging with this module are identified and supported?MS Teams used to track and log submission of work, student, parental and tutor contact when not completed. CL informed of repeated disengagement.			
FE	EDBACK			
End of Module – what is the end of module assessment, which will be used to evaluate the knowledge and skills gained? Review Points – what takes place at the review points the progress of learners and provide feedback, or sup				
Exit ticket to check key success criteria	2 Weeks	Exit ticket at end of 2-week module		
Using ratio notationSmplifying ratio	4 Weeks	x		
Sharing in a ratioRatio difference	6 Weeks	x		
Proportion (recipe)	8 Weeks	x		
Value for money problems	Other	"Clinic" to take place once a week via MS Teams		

Del	ivery	/ (please note - a two week remote	lear	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 Why Understand how ratio works and how it is applicable in real life, develop fluency and		
				Last lesson, last week, last month grids for each asynchronous lesson	How	UnderstandingHowWrite a ratio, simplify a ratio, share in a ratio, solve problems involving ratio		
1	s in	4) New Material (previous learning/ new material) Ratio notation; simplifying ratio; ratio given 1 value;		5) Check for Understanding (questioning/checking) Diagnostic questions used – answers in chat or	Questions	6) Prepare for Practice (model/ scaffold) Questions clearly modelled and scaffolded using a bar method, students asked to copy down for reference		
	Number of lessons	ratio with difference given 7) Deliberate Practice		held up on camera 8) Feedback	bar meth reference	0) Devrieur		
	er of	(guided/ independent) Section 1 – notation & simplifying		(light/deep) Q&A clinic used to answer guestions	Quiz at th	(daily/monthly) ne end of the cycle (MS Forms)		
	dmuN	Section 2 – sharing in a ratio Section 3 – sharing in a ratio Section 4 – ratio given 1 value		Solutions shared for students to self-assess, teacher will collate common errors through viewing submitted work and address in Q&A clinics	(daily/monthly) Ouiz at the end of the cycle (MS Forms)			
	T							
		 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)	\square	Recall practice (MathsBot displayed on arrival)	What Why	What is proportion, how to apply proportion in context		
		Blended (live in classroom and remote as study)		Last lesson, last week, last month grids for		Understand how proportional relationships are important in real life (such as cooking), develop fluency and understanding		
				each asynchronous lesson	How	Scale recipes, solve rate of change problems		
2	.5	4) New Material (previous learning/ new material)		5) Check for Understanding (questioning/checking)		6) Prepare for Practice (model/ scaffold) s clearly modelled and scaffolded, asked to copy down for reference		
	lessons in e:	Scale recipes up, scale recipes down, unitary method, best buy problems		Diagnostic questions used – answers in chat or held up on camera		s clearly modelled and scaffolded, asked to copy down for reference		
		(guided/ independent)		8) Feedback (light/deep)	9) Review (daily/monthly)			
	Number of	 Section 5 – scaling problems Section 6 – scaling recipes 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		(daily/monthly) ne end of the cycle (MS Forms) to for deep feedback submitted in session 8		

of lessons in cycle		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)	\boxtimes		What Why		
		Blended (live in classroom and remote as study)			How		
	SU	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)