REMOTE LEARNING MODULE

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



Subject:	Mathematics			Teacher (if applicable):					
Year:	10			Ability/Clc	iss (if applicc	ble):	High	ner	
Module title:	Algebraic Skills								
Duration:	2 weeks 🔀	4 weeks]	6 weeks 🗌		8 wee	eks 🗌		Other:
Intent									
	ent - at Landau Forte Ar are you trying to accom	-		u .	ul knowledg	le help	s stuc	dents 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 kno	w and do by	the time th	ey finish this r	modul	eș		
 Factoris Collection Laws of Equations Forming 	ing single and double b ing polynomials ing Like Terms Indices g and solving linear equa	ations.							
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 – who	at is being covered, ens	uring breac	th & depth?		Curriculum/E> or Exam Spe	•	oecifi	ication - hov	w does the content link
-	skills and content overlapping cover" lost learning and further								
	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 backgrounds?								
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Implementation					
	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?			
 Algebraic Skills Expanding single and double brackets Factorising polynomials Collecting Like Terms Laws of Indices Equations 	Bridges gaps planned	s between Yr11 and Yr10 SOLs, builds using spiral curriculum already			
Forming and solving linear equations.					
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?				
live lessons and DIRT lesson after cycleDeliberate practice (booklet)1. Expanding and Factorising (revisit / new material)Exit ticket for end of topic assessment2. Index Laws (revisit / new material)Exit ticket for end of topic assessment3. Solving Linear Equations (revisit / new material)Exit ticket for end of topic assessment					
	GAGEMENT				
Accessibility – how are you going to ensure students without ICT can engage with this module?		ment – how are you going to ensure students who are sing with this module are identified and supported?			
Work pack will be printed and posted to students	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, to monitor the progress of learners and provide feedback, or support?				
Exit ticket to check key success criteria	2 Weeks	Exit ticket at end of 2-week module			
 Algebraic Skills Expanding single and double brackets 	4 Weeks	X			
 Expanding single and double brackets Factorising polynomials 	6 Weeks	X			
Collecting Like Terms	8 Weeks	×			
Laws of Indices Equations	Other	"Clinic" to take place once a week via MS Teams			

Forming and solving linear equations.		
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Del	ivery	y (please note - a two week remote	e lear	ning module may only take one lesson	cycle)					
	m	1) Lesson Type (remote or blended)		2) DNA (Do Now Activity/Reading)		3) Learning Intentions (what, why & how)				
1		Remote (live on MS Teams and remote as study)		Recall practice (MathsBot displayed on arrival)	What Why	Expanding and factorising Fill in the gaps, develop fluency and				
		Blended (live in classroom and remote as study)		Last lesson, last week, last month grids for each asynchronous lesson	How	understanding Expand and factorise up to and including quadratics.				
	Number of lessons in cvcle:	4) New Material (previous learning/ new material) Expanding single and double brackets		5) Check for Understanding (questioning/checking) Diagnostic questions used – answers in chat or	Questions	6) Prepare for Practice (model/ scaffold)				
		Factorising into single and double brackets.		held up on camera						
	er of le cvole	0 7) Deliberate Practice 0 (guided/ independent)		8) Feedback (light/deep)		9) Review (daily/monthly) e end of the cycle (MS Forms)				
	Numbe	Section 1 – Collecting like terms Section 2 – Expanding brackets Section 3 – Factorising brackets		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)					
		1) Lawren T								
		1) Lesson Type (remote or blended)		2) DNA (Do Now Activity/Reading)		3) Learning Intentions (what, why & how)				
	4	, , , , , , , , , , , , , , , , , , , ,		(Do Now Activity/Reading) Recall practice (MathsBot displayed on	What	(what, why & how) Laws of indices				
	4	(remote or blended) Remote (live on MS Teams and remote as study) Blended		(Do Now Activity/Reading) Recall practice (MathsBot displayed on arrival)	Why	(what, why & how) Laws of indices Fill in the gaps, develop fluency and understanding				
	4	(remote or blended) Remote (live on MS Teams and remote as study) Blended (live in classroom and remote as study)		(Do Now Activity/Reading) Recall practice (MathsBot displayed on arrival) Last lesson, last week, last month grids for each asynchronous lesson		(what, why & how) Laws of indices Fill in the gaps, develop fluency and understanding Answer questions involving basic laws of indices, including fractional and negative.				
2		(remote or blended) Remote (live on MS Teams and remote as study) Blended (live in classroom and remote as study) 4) New Material (previous learning/ new material)		(Do Now Activity/Reading) Recall practice (MathsBot displayed on arrival) Last lesson, last week, last month grids for each asynchronous lesson 5) Check for Understanding (questioning/checking)	Why How	(what, why & how) Laws of indices Fill in the gaps, develop fluency and understanding Answer questions involving basic laws of indices, including fractional and negative.				
2		(remote or blended) Remote (live on MS Teams and remote as study) Blended (live in classroom and remote as study) 4) New Material		(Do Now Activity/Reading) Recall practice (MathsBot displayed on arrival) Last lesson, last week, last month grids for each asynchronous lesson 5) Check for Understanding	Why How Questions	(what, why & how) Laws of indices Fill in the gaps, develop fluency and understanding Answer questions involving basic laws of indices, including fractional and negative. 6) Prepare for Practice				
2		(remote or blended) Remote (live on MS Teams and remote as study) Blended (live in classroom and remote as study) 4) New Material (previous learning/ new material) Basic index laws. Fractional and negative indices 7) Deliberate Practice (guided/ independent)		(Do Now Activity/Reading) Recall practice (MathsBot displayed on arrival) Last lesson, last week, last month grids for each asynchronous lesson 5) Check for Understanding (questioning/checking) Diagnostic questions used – answers in chat or held up on camera 8) Feedback (light/deep)	Why How Questions students of	(what, why & how) Laws of indices Fill in the gaps, develop fluency and understanding Answer questions involving basic laws of indices, including fractional and negative. 6) Prepare for Practice (model/ scaffold) c clearly modelled and scaffolded, asked to copy down for reference 9) Review				
2	lessons in e.	(remote or blended) Remote (live on MS Teams and remote as study) Blended (live in classroom and remote as study) 4) New Material (previous learning/ new material) Basic index laws. Fractional and negative indices 7) Deliberate Practice		(Do Now Activity/Reading) Recall practice (MathsBot displayed on arrival) Last lesson, last week, last month grids for each asynchronous lesson 5) Check for Understanding (questioning/checking) Diagnostic questions used – answers in chat or held up on camera 8) Feedback	Why How Questions students of	(what, why & how) Laws of indices Fill in the gaps, develop fluency and understanding Answer questions involving basic laws of indices, including fractional and negative. 6) Prepare for Practice (model/ scaffold) c clearly modelled and scaffolded, asked to copy down for reference 9) Review				

		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)	\square	Recall practice (MathsBot displayed on arrival)	WhatSolving linear equationsWhyFill in the gaps, develop fluency and		
		Blended (live in classroom and remote as study)		Last lesson, last week, last month grids for each asynchronous lesson	How	Understanding Form and solve linear equations for cont	text.
3	ı cycle:	4) New Material (previous learning/ new material) Forming and solving linear equations.		5) Check for Understanding (questioning/checking) Diagnostic questions used – answers in chat or held up on camera		6) Prepare for Practice (model/ scaffold) Questions clearly modelled and scaffolded, students asked to copy down for reference	
	ssons in				Sync		
	of les	7) Deliberate Practice (guided/ independent)		8) Feedback (light/deep)	9) Review (daily/monthly)		suor
<u> </u>	Number o	Section 6- Solving Linear Equation		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 provided at the end of the module.		Asynchronous (remote)