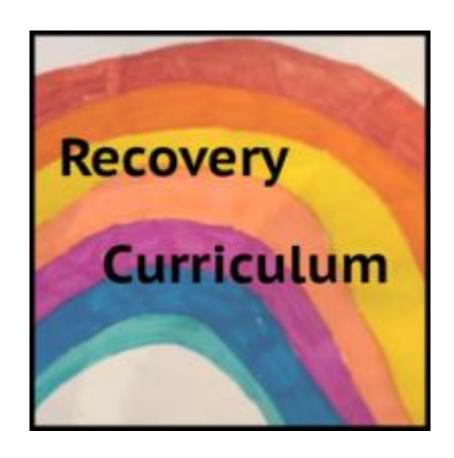
RECOVERY CURRICULUM

Subject: GCSE D&T

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Subject:	GCSE Design & Technology	Teacher:	DJB
Year:	11	Class:	11C/Tp1
Unit title:	Recovery		
Duration:	7 session		

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 do you want pupils to be able to know and do by the time they finish this unit/topic?

How energy is produced and stored

Different scales of production

Academy values – at Landau Forte Amington, we want students to be ambitious, brave and kind. How are these values promoted in this PoS?

Students will be encouraged to be ambitious in their desire to get back to normal and embrace methods of getting back to practical activities. They will be encouraged to be brave and have a go at activities they have become unfamiliar with. Kindness will be shown in understanding that everyone ones has had to deal with their own issues during lockdown and to show understanding of other people's opinions.

Content – what is being covered, ensuring breadth & depth?	National Curriculum/Exam Specification - how does the content link to the NC or Exam Spec?
Energy production by renewable and non-renewable sources Industrial production systems and scales of production	AQA Spec points 3.1.2 Energy generation and storage 3.2.7 Scales of production

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?

How energy is produced in different ways and how this can impact the planet. Students will be more able to make informed choices. Different scales of production will open students' eyes to the opportunities available to them following achieving a D&T qualification.

Implementation							
	GAPS						
Identification – how are you going to identify the gaps in knowledge/skills? Missing knowledge has been identified from the units which	Triage – how are you going to rank order these gaps in knowledge/skills and 'fill' them, in order of importance? Scales of production is knowledge which will play a large part in						
would have been covered during lockdown	producing a detailed NEA portfolio so will be prioritised. Energy production and storage is more exam based information so can be covered in more depth during and after NEA is completed.						
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?						
How different products are manufactured at different scales and how this can impact the economic viability of a design. Where energy (electricity) comes from and how this can impact the design of a product.	Both concepts are key to the delivery of the CGSE and are tken directly from the specification. Scales of production is knowledge which will play a large part in producing a detailed NEA portfolio.						
W	/ELLBEING						
Lockdown – how will students share their experiences of lockdown?	Social and Emotional – how will student social and emotional health be supported?						
Discussion of: Online purchases made during lockdown and why they were made (considering environmental impact of materials) Any practical activities they have done at home which they may not have done previously	Any discussions will focus on student needs and take into account students different experiences of lockdown. Student experiences of lockdown will be used to influence the lesson content.						
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?
Routines will be recapped (D&T rooms can be different to general classrooms) Walkthroughs will be given in the practical rooms and demonstrations given on equipment use.	Seating plans will be based around known friendship groups and established working groups. Teachers will be sharing their experiences of lockdown to make students realise we have all experienced similar things
OPPO	ORTUNITIES
Discussion – what are the discussion based opportunities?	Group – what are the group work based opportunities (while still ensuring social distancing)?
Discussion of how their working environments at home could be redesigned and adapted. Has working from home had any impact of their energy consumption?	Sorting and discussing different scales of production for manufacturing different products.

Del	ivery	у					
		Lesson Type (classroom or blended for remote home)	vork)	2) DNA (Do Now Activity/Reading)		3) Learning Intentions (what, why & how)	
		Classroom (whole sequence completed)		How many different ways art her for	What	How is electricity produced?	
		Blended		producing electricity? Name as many as	Why	To be able to choose the most appropriate source for products	
		(live and remote as independent study)	Х	you can.	How	By comparing rates of production an environmental impact	nd
	le: 1	4) New Material (previous learning/ new material)		5) Check for Understanding (questioning/checking)		 6) Prepare for Practice (model/ scaffold) 	snou
1	ons in cycle;	Recap of knowledge learnt through remains a learning in lockdown – renewable or non-renewable		Targeted questioning which are renewable or non-renewable		d example of pros and cons of coal wer stations.	Synchronous (live)
	f less	7) Deliberate Practice (guided/ independent)		8) Feedback (light/deep)		9) Review (daily/monthly)	snous (e
	Number of lessons	Students complete task for other energy sources.		Discussion with student check against success criteria	End of m	nodule test as DNA in session 3	Asynchronous (remote)
2		Lesson Type (classroom or blended for remote home)	vork)	2) DNA (Do Now Activity/Reading)		3) Learning Intentions (what, why & how)	

		Classroom (whole sequence completed) Blended (live and remote as independent study)		- Why might we need to store energy/electricity?	What Why How	How energy is stored and why To make choices on suitable energy storage systems By comparing systems and applying them to different products	
	ons in cycle: 1	4) New Material (previous learning/ new material) New material – storage systems for mass storage of electricity.		5) Check for Understanding (questioning/checking) Daydream education quick test	Advanta modelle	6) Prepare for Practice (model/ scaffold) ages and disadvantages of fuel cells ed.	Synchronous (live)
	Number of lessons in cycle:	7) Deliberate Practice (guided/ independent) Students complete analysis of kinetic pumped storage systems		8) Feedback (light/deep) Discussion of students work and checking against success criteria	9) Review (daily/monthly) End of module test as DNA in session 3		Asynchronous (remote)
		1) Lesson Type		2) DNA		3) Learning Intentions	
		(classroom or blended for remote homew	ork)	(Do Now Activity/Reading)		(what, why & how)	
		Classroom (whole sequence completed)			What	What scales of production are used manufacturing To establish choices for the most	in
		Blended (live and remote as independent study)	Х	Testing on energy production and storage	,	appropriate system for a particular product	
					How	BY comparing scales and products	
3	e: 2	4) New Material (previous learning/ new material)		5) Check for Understanding (questioning/checking)		6) Prepare for Practice (model/ scaffold)	SOOL
	ns in cycle:	Recap of knowledge learnt through remo learning in lockdown – scales of production		Daydream education quick test		tures of one off/bespoke production ed and modelled	Synchronous (live)
	lesso	7) Deliberate Practice (guided/ independent)		8) Feedback (light/deep)		9) Review (daily/monthly)	ous)
	Number of lessons	Students analyse batch, mass and continuous flow production.		Written teacher feedback on DNA task. Redo Daydream quick test to gauge progress	End of module test. Subject revisited during NEA task to identify most suitable for product manufacture		Asynchronous (remote)

		1) Lesson Type	اداسمير	2) DNA		3) Learning Intentions	
		(classroom or blended for remote home	vork)	(Do Now Activity/Reading)		(what, why & how)	
		Classroom			What	What industrial production technique	es
		(whole sequence completed)		What are the advantages of automated	Why	are available To establish how products are made	
		Blended (live and remote as independent study)		production systems?	VVIIV	economically viable	
		(live and remote as independent study)	Х		How	By comparing techniques and makin	ng
		4) New Material		5) Check for Understanding		choices for certain products 6) Prepare for Practice	S
	9: 2	(previous learning/ new material)		(questioning/checking)		(model/scaffold)	DOL
4	cycle:	Recap of knowledge learnt through remo		Targeted questioning	Model c	completion of technologystudent.com	chror (live)
		learning in lockdown – production techni	ques		just in tin	ne research page	Synchronous (live)
	ı su						Sy
	Number of lessons in	7) Deliberate Practice		8) Feedback	9) Review		Sí
	e le	(guided/ independent)		(light/deep)	(daily/monthly)) (e
	er o	Students use Technologystudent.com app to analyse manufacturing techniques and		Discussion feedback End of module test.		nodule test.	norte note
	ğμ	present results					Asynchronous (remote)
	Z						As)
		1) Lesson Type		2) DNA		3) Learning Intentions	
		(classroom or blended for remote home)	vork)	(Do Now Activity/Reading)		(what, why & how)	
		Classroom			What		
		(whole sequence completed)		End of module test on scales and	Why		
		Blended (live and remote as independent study)	Χ	techniques for industrial manufacture	How		
5		4) New Material		5) Check for Understanding		6) Prepare for Practice	Sn
	<u>ئ</u> ک	(previous learning/ new material)		(questioning/checking)		(model/ scaffold)	
	er o						chror (live)
	Number of						Synchronous (live)
	Z	7) Deliberate Practice		8) Feedback		9) Review	Asyn chro
		(guided/ independent)		(light/deep)		(daily/monthly)	N N

			Written feedback with opportunity to update work in next session	
		1) Lesson Type (classroom or blended for remote homework) Classroom	2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)
		(whole sequence completed) Blended (live and remote as independent study)		Why How
6	ns in cycle:	4) New Material (previous learning/ new material)	5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold) Should be a series of the scale of the s
	Number of lessons in cycle:	7) Deliberate Practice (guided/ independent)	8) Feedback (light/deep)	Asynchronous (support of the property of the p
		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) Blended (live and remote as independent study)		What Why How
7	Number of	4) New Material (previous learning/ new material)	5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold)
	1 889	7) Deliberate Practice (guided/ independent)	8) Feedback (light/deep)	9) Review (daily/monthly)

		1) Lesson Type (classroom or blended for remote homework) Classroom	2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)
		(whole sequence completed) Blended (live and remote as independent study)		Why How
8	ons in cycle:	4) New Material (previous learning/ new material)	5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold) (live)
	Number of lessons in cycle:	7) Deliberate Practice (guided/ independent)	8) Feedback (light/deep)	Asynchronous (daily/monthly)
		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) Blended (live and remote as independent study)	(Bo Now Mellylly) Redding)	What Why How
9	Number of	4) New Material (previous learning/ new material)	5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold)
	2 9	7) Deliberate Practice (guided/ independent)	8) Feedback (light/deep)	9) Review (daily/monthly)

		Lesson Type (classroom or blended for remote homev	vork)	2) DNA (Do Now Activity/Reading)	3) Learning Intentions (what, why & how)
		Classroom (whole sequence completed)			What Why
		Blended (live and remote as independent study)			How
10	sons in cycle:	4) New Material (previous learning/ new material)		5) Check for Understanding (questioning/checking)	6) Prepare for Practice (model/ scaffold) (eive)
	Number of lessons	7) Deliberate Practice (guided/ independent)		8) Feedback (light/deep)	Asynchronous (remote)