Now that the revised curriculum has been taught, please consider the Implementation and Impact of the curriculum you taught. What changes might need to be made to the Curriculum Intent (See Curriculum Map and Overviews) in light of this year's experiences?

Year 9 Overview 2023-24 – Physics								
Date	Wk	Week	Units Studied & Learning Outcomes	Key Concepts & Assessment				
			8 weeks (8 Lessons)	(38 Days)				
Tues 5-Sep	А	1	Overview of Unit/No. lessons					
11-Sep	В	2	Particles, radiation and density (8 lessons)					
18-Sep*	Α	3	Lesson Sequence of Content					
25-Sep	В	4	1 – Kinetic Theory (1 lesson)					
2-Oct	А	5	2 – Conduction (1 lesson)					
9-Oct	B	6	3 – Infrared (1 lesson)					
16-Oct	A	7	lesson)					
23-UCT	Б	8	Prior       Now       Next         Year 7 –       Understanding       Year 11+         Kinetic       more detail on       continual         theory and       kinetic theory,       application         energy       thermal energy       of particle         transfer and       calculating       density         Unit Learning Outcomes:           GW - Draw simple diagrams to model the       difference between solids, liquids and         gases, Describe the process of conduction       in solids, Know that the type of surface         can affect the amount of radiation       absorbed/emitted, Know how to calculate         the density of an object          BI – Describe the states of matter in terms       of the energy of their particles, Explain         conduction using particles, Describe which       surface is the best/worst at         absorbing/emitting, Know how to       measure the density of a regular object by         experiment       EW - Be able to explain the different         properties of the states of matter using       kinetic theory, Explain why metals are the         best conductors, Explain how some things       are designed to absorb/emit radiation,					
Half-Term			7 weeks (7 lessons) (34	Days)				
6-Nov	A	9	Density, energy and efficiency (7 lessons)					
			Bensity, energy and entitiency (7 lessolis)					

13-Nov	В	10	Lesson Sequence of Content:
20-Nov	Δ		1 – Factors affecting heat loss (1 lesson)
20 1101	~	11	2 – House insulation (1 lesson)
27-Nov	В	12	3 – Energy stores (1 lesson)
_/	_		4 – Efficiency (1 lesson)
4-Dec	Α		5 – Increasing efficiency (1 lesson)
		13	6 – Calculating Power (1 lesson)
11-Dec	В	14	7 – ST1 revision (1 lesson)
	_		
18-Dec			
			Prior Now Next
			Energy thermal energy 12/13 –
			transfers transfer Thermal
			physics
			Understanding
			specific heat Year 10 –
			Kinetic Understanding operational
			and application work done
			of efficiency
			CIVIL Decell successful of insulation
			Gw: Recall examples of insulating     materials. Know why the insulation is
			materials, know why the insulation is
			important, know the different types of
			energy store
			<ul> <li>Blu Blot on occurate graph of your regults.</li> </ul>
			BI. Plot all accurate graph of your results,      Know different methods of insulating a
			nouse and calculate their payback time,
			Be able to give a simple energy
			transformation and identify pathways
			EW: Write a conclusion based on your
			evidence, Explain how different methods
			of insulation work and evaluate which
			should be installed first, Give a more
			complex energy transformation
	А		
		15	•
Christmas Holic	lay		6 weeks (6 lessons) (30 Days)
8-Jan	В		Overview of Unit/No. lessons
		16	ST1 Prep and feedback (4 lessons)
	А		Energy Resources (2 lessons)
15-Jan		ST1	
	В		Lesson Sequence of Content:
22-Jan		ST1	1/2 - Revision for ST1 (2  lessons)
	А		3 – Sit Si 1 (1 lesson)
29-Jan		19	4 – SIL Feedback (1 lesson)
5-Feb	В		5/0 – Eriergy Resources (2 lessons)
		20	
	٨		
12-Feh	~	21	Prior Now Nevt
12 I CD	1	L 27	

Now that the revised curriculum has been taught, please consider the Implementation and Impact of the curriculum you taught. What changes might need to be made to the Curriculum Intent (See Curriculum Map and Overviews) in light of this year's experiences?

			Vear 8 –	Understanding	Year		
1			Enormy	of what specific	12/12 -		
1			transfore	boot conscitutio	12/13 - Thormal		
1			uansiers	and housts	nermai		
1			X 0		physics		
1			Year 8 –	calculate it			
			How				
			power	Increasing the			
1			stations	efficiency of an			
			work	object			
				Understanding			
				the advantages			
				and			
				disadvantages			
				of energy			
				resources			
			GW: Cale	culate the specific h	leat capacity		
			of a mat	erial, Know what is	meant by		
			efficienc	y, Know the equation	on for power,		
			Know th	e different types of	energy store.		
			Know th	e 2 main types of e			
			KHOW LI	c 2 main types of e	inergy resource	-	
			BI: Know	the definition of s	pecific heat		
			capacity	, Calculate the effic	iency of a		
			device, l	Jse the power equa	ition to answe	r	
			question	is. Know some adva	intages of		
			ronoural				
			renewat	nes sources			
			EW: Exp	lain every day exam	ples of		
			specific	heat capacity, Reari	range the		
			efficienc	v equation. Explain	how the		
			efficienc	y of a device can be	improved		
			Lindoret	and different device	c transfor		
			Underst	and unrerent device	es transfer		
			different	t amounts of energy	y in the same		
			time, Ex	plain the advantage	es and		
			disadvar	ntages of fossil fuels	s, Explain		
			which tv	pe of energy source	e would be		
			most sui	table in a given are	a		
			11051 501	asic in a given die	u		
	1	I	•	<b>F</b> 1	- ( <u>)</u>	12	24 David
Halt-Term			1	5 week	s (?? lessons)	(2	za Days)
26-Feb	В	22	Overview of	f Unit/No. lesson	<u>s</u>		
4-Mar	Α	23	Waves (5 le	essons)			
11-Mar	R	24	1				
		24	Lesson Seau	uence of Content:			
18-Mar	A	25	1/2 – Wave	basics (2 lessons)			
25-Mar*			$\frac{1}{2}/4 = \frac{1}{2}/4$	a required practic	als (2		
			Josephanes	s required practic	מוס (ב		
			lessons)	t			
			5 – EM spectrum (1 lesson)				
	В	26	Prior	Now	Next		
1							

			Year 8 –	Understanding	Y12/13	
			Energy	the advantages	Thermal	
			transfers	and	physics	
				disadvantages		
			Y8 –	of energy		
			sound as	resources		
			a	<i>v</i> · ·		
			longitudin	Knowing types		
			di wave	mathematical		
				calculations and		
				applying it		
				practically		
			• GW: Know	the 2 main types of	energy	
			resource, B	e able to label wav	elength and	
			amplitude,	Know the equipme	nt needed for	
			one of the	waves practicals		
				<b>.</b>		
			BI: Give det	finitions for the two	types of	
			energy reso	ource, Know some a	idvantages of	
			renewables	s sources, Know the	different	
			types of wa	aves, Be able to corr	rectly calculate	
			the wavele	ngth/frequency usi	ng the wave	
equation, Be able to describe how to						
			measure th			
			EVV: Explain	n the advantages ar	10 Walain which	
			disadvanta	ges of fossil fuels, E	xpiain which	
			type of ene	ergy source would b	e most	
			suitable in	a given area, Be abl	e to explain	
			the differer	nce between the dif	ferent waves,	
			Know wher	n to substitute in pr	efixes in	
			equations,	Be able to describe	how to	
			measure th	e wavelength and f	requency of a	
			wave in bo	th practicals		
			•			
Easter Holiday				6 weeks (6	b lessons) (29	Days)
15-Apr	Α	27	Overview of	Unit/No. lessons	<u>5</u>	
22-Apr	В	28	EIM spectru	m and refraction	(2 lessons)	
29-Apr				ionco of Contont:		
	Α	29	1 - Uses of t	bo EM coostruct	(1 losson)	
6-May*		30	1 - 0ses of t	ne Eivi spectrum	(1 1622011)	
	В		2 - Refraction	d woight (1 lossor	.)	
13-May	А	31	5 - iviass and	u weight (I lessor	ij Forcos /1	
20-May				and non-contact f	orces (1	
- /			lesson)	vicion		
			5/0-512 re	VISION		
	В	32	Prior	Now	Next	

Now that the revised curriculum has been taught, please consider the Implementation and Impact of the curriculum you taught. What changes might need to be made to the Curriculum Intent (See Curriculum Map and Overviews) in light of this year's experiences?

	1				· · · · ·	1
			Y8 –	Knowing types	Year 12 –	
			Sound as	of waves,	Photon	
			a Iongitudin	inatnematical	model of	
			al wave	applying it	gnetic	
				practically	radiation	
			Wave	,,		
			properties	Know the	Gamma as	
				properties and	part of the	
				uses of EM	EM	
				Waves	Spectrum	
			<ul> <li>GW: Know spectrum</li> <li>BI: Know spectrum different</li> <li>EW: Kno has the I different and appl calculate interpret</li> </ul>	w some parts of th n and their uses the correct order of n, describe the feat types of wave w which part of the ongest wavelength properties of EM v y knowledge, use e data, carry out pra- t and explain data.	e EM of the EM ures of e EM spectrum , explain the waves. Recall equations to actical,	
			•			
Half-Term			1	7 week	s (7 lessons) (	35 Days)
3-Jun	A	ST2	Overview of	Unit/No. lesson	<u>s</u>	
10-Jun	В	ST2	1			
17-Jun	Α	35	Lesson Sequ	ence of Content:	:	
241						
<u>/</u> Δ-lun		36	1 – ST2 revis	ion (1 lesson)		
24-Jun	В	36	1 – ST2 revis 2 – Sit ST2 (1	sion (1 lesson) L lesson)		
24-Jun	B	36	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed	sion (1 lesson) L lesson) back (1 lesson)		
1-Jul	B A	36 37	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed 4/5 – Hooke	sion (1 lesson) L lesson) back (1 lesson) 's Law and requir	ed practical	
24-Jun 1-Jul 8-Jul	B A B	36 37 38	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed 4/5 – Hooke (2 lessons)	sion (1 lesson) L lesson) back (1 lesson) 's Law and requir	ed practical	
24-Jun 1-Jul 8-Jul 15-Jul	B A B	36 37 38	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed 4/5 – Hooke (2 lessons)	sion (1 lesson) 1 lesson) back (1 lesson) 's Law and requir	ed practical	
24-Jun 1-Jul 8-Jul 15-Jul	B A B	36 37 38	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed 4/5 – Hooke (2 lessons)	sion (1 lesson) 1 lesson) back (1 lesson) 's Law and requir	ed practical	
24-Jun 1-Jul 8-Jul 15-Jul	B A B	36 37 38	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed 4/5 – Hooke (2 lessons)	sion (1 lesson) 1 lesson) 'back (1 lesson) 's Law and requir Now	ed practical          Next         Year 10 –	
24-Jun 1-Jul 8-Jul 15-Jul	B A B	36 37 38	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed 4/5 – Hooke (2 lessons) Prior Y7 – Concepts	sion (1 lesson) 1 lesson) back (1 lesson) 's Law and requir S Law and requir Further understanding	ed practical <u>Next</u> Year 10 – Calculatin	
24-Jun 1-Jul 8-Jul 15-Jul	B A B	36 37 38	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed 4/5 – Hooke (2 lessons) Prior Y7 – Concepts of mass,	sion (1 lesson) 1 lesson) back (1 lesson) 's Law and requir S Law and requir Understanding of mass	ed practical <u>Next</u> Year 10 – Calculatin g GPE	
24-Jun 1-Jul 8-Jul 15-Jul	B A B	36 37 38	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed 4/5 – Hooke (2 lessons) <u>Prior</u> Y7 – Concepts of mass, weight	sion (1 lesson) 1 lesson) back (1 lesson) 's Law and requir S Law and requir Understanding of mass	ed practical Next Year 10 – Calculatin g GPE	
24-Jun 1-Jul 8-Jul 15-Jul	B A B	36 37 38	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed 4/5 – Hooke (2 lessons) <u>Prior</u> Y7 – Concepts of mass, weight and forces	sion (1 lesson) 1 lesson) back (1 lesson) 's Law and requir Surther understanding of mass Greater detail	Next Year 10 – Calculatin g GPE Applicatio	
24-Jun <u>1-Jul</u> 8-Jul 15-Jul	B A B	36 37 38	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed 4/5 – Hooke (2 lessons) Prior Y7 – Concepts of mass, weight and forces	sion (1 lesson) 1 lesson) back (1 lesson) 's Law and requir <u>Now</u> Further understanding of mass Greater detail on what is	Next Year 10 – Calculatin g GPE Applicatio ns of	
24-Jun 1-Jul 8-Jul 15-Jul	B A B	36 37 38	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed 4/5 – Hooke (2 lessons) Prior Y7 – Concepts of mass, weight and forces Y8 –	sion (1 lesson) 1 lesson) back (1 lesson) 's Law and requir 's Law and requir Understanding of mass Greater detail on what is happening in	Next Year 10 – Calculatin g GPE Applicatio ns of refraction	
24-Jun 1-Jul 8-Jul 15-Jul	B A B	36 37 38	<ul> <li>1 – ST2 revis</li> <li>2 – Sit ST2 (2</li> <li>3 – ST2 feed</li> <li>4/5 – Hooke</li> <li>(2 lessons)</li> </ul> Prior <ul> <li>Y7 –</li> <li>Concepts</li> <li>of mass,</li> <li>weight</li> <li>and forces</li> <li>Y8 –</li> <li>refraction</li> <li>(in light)</li> </ul>	sion (1 lesson) 1 lesson) back (1 lesson) 's Law and requir 's Law and requir Understanding of mass Greater detail on what is happening in refraction	red practical Next Year 10 – Calculatin g GPE Applicatio ns of refraction	
24-Jun 1-Jul 8-Jul 15-Jul	B A B	36 37 38	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed 4/5 – Hooke (2 lessons) Prior Y7 – Concepts of mass, weight and forces Y8 – refraction (in <i>light</i> topic)	sion (1 lesson) 1 lesson) back (1 lesson) 's Law and requir Further understanding of mass Greater detail on what is happening in refraction	red practical Next Year 10 – Calculatin g GPE Applicatio ns of refraction	
24-Jun 1-Jul 8-Jul 15-Jul	B A B	36 37 38	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed 4/5 – Hooke (2 lessons) Prior Y7 – Concepts of mass, weight and forces Y8 – refraction (in <i>light</i> topic)	sion (1 lesson) 1 lesson) back (1 lesson) 's Law and requir Further understanding of mass Greater detail on what is happening in refraction	Next Year 10 – Calculatin g GPE Applicatio ns of refraction	
24-Jun 1-Jul 8-Jul 15-Jul	B A B	36 37 38	1 – ST2 revis 2 – Sit ST2 (2 3 – ST2 feed 4/5 – Hooke (2 lessons) <u>Prior</u> Y7 – Concepts of mass, weight and forces Y8 – refraction (in <i>light</i> topic)	sion (1 lesson) 1 lesson) back (1 lesson) 's Law and requir Further understanding of mass Greater detail on what is happening in refraction	Next Year 10 – Calculatin g GPE Applicatio ns of refraction	
24-Jun 1-Jul 8-Jul 15-Jul	B A B	36 37 38	<ul> <li>1 – ST2 revis</li> <li>2 – Sit ST2 (2)</li> <li>3 – ST2 feed</li> <li>4/5 – Hooke</li> <li>(2 lessons)</li> </ul> Prior <ul> <li>Y7 –</li> <li>Concepts</li> <li>of mass,</li> <li>weight</li> <li>and forces</li> <li>Y8 –</li> <li>refraction</li> <li>(in <i>light</i></li> <li>topic)</li> </ul> • GW: Be a	sion (1 lesson) 1 lesson) back (1 lesson) 's Law and requir Now Further understanding of mass Greater detail on what is happening in refraction able to draw a diagr	Next Year 10 – Calculatin g GPE Applicatio ns of refraction	

<ul> <li>Know the difference between mass and weight, Know the type of energy stored in a spring</li> <li>BI: Be able to explain why refraction occurs, Know the difference between contact and non-contact forces and give examples, Know what the limit of proportionality is</li> <li>EW: Be able to describe and explain an example of where we "meet" refraction, the balance with the limit of proportional type and the limit of properties and explain an example of where we "meet" refraction, the balance with the limit of properties and explain an example of where we "meet" refraction, the balance with the limit of properties and explain an example of where we "meet" refraction, the balance with the limit of properties and explain an example of where we "meet" refraction, the balance with the limit of properties and explain an example of where we "meet" refraction, the balance with the limit of properties and explain an example of where we "meet" refraction, the balance with the limit of properties and explain an example of where we "meet" refraction, the balance with the limit of properties and explain an example of where we "meet" refraction, the balance we have balance</li></ul>	
Understand the difference between a scalar and a vector quantity, Use the equation linking force, extension and spring constant	
(Total: 190 Days)	

\* Bank Holidays

## Prompt Questions

Now that the revised curriculum has been taught, please consider the Implementation and Impact of the curriculum you taught. What changes might need to be made to the Curriculum Intent (See Curriculum Map and Overviews) in light of this year's experiences?

## Please revisit the prompts from last year:

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- What are the Key concepts for this unit?
- How will it link to wider disciplinary knowledge/cultural capital: history, culture, authentic artefacts, music, art, literature?
- How does it build on prior knowledge and link to other units, concepts, years, GCSE?
- What is it intended students will have learned?
  - For each Unit? By the end of the Year?
    - GW: ; BI: ; EW
- Is it worth summarising in a knowledge organiser?
- Assessment: how do you know they have learned the foundational concepts, curriculum and wider disciplinary knowledge? Does assessment look like GCSE light? Should it?
- Skills used/learned
- Tier 2/3 vocabulary ((Etymology e.g. of Greek/Latin)