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			,	Year 11 Ov	erview 202	5-26 – Physics
Date	Wk	Week	Units Stud	lied & Learnir	ng Outcomes	
				8 we	eeks (12 Lesso	ns) (38 Days)
Tues 2-Sep Tues Y7 only Wednesday-		1	Over Forces and more revision (for h	view of Unit, otion and mo	/No. lessons omentum	• Four
whole school 8-Sep	A B	2	Sep – Pressure	e in a gas/flu	id/atmospher	ic • Kno
15-Sep (INSET		3	Energy and cir		-	• Expl
Friday) 22-Sep	A B	4	• Lesso	n 1 - Revision	of Newtons Lav	·
29-Sep	A	5	of mo • Lesso		of Motion grap	• Kno
6-Oct	В	ST1	and m	notion on a st	raight line	• Kno
13-Oct 20-Oct	A B	ST1 8	resolu	n 3 – Vector d ution of forces n 4 – Revision	_	Be a expl char
20-001		8	and th	nen calculatio entum in colli	ns involving	KnoKnoa cir
			• Lesso	n 5-7 – Pressu ressure in a fl	ire in gases HT – uid/atmospheri	
			• Lesso symbol	n 8 – Recap o ols and series,		
				_	ating Series rule gating Parallel	• Tier • Glos
			circui	n 11 – Using V t rules n 12 – ST2 rev		Key words: Forces, resulta velocity, amm
			GW - Be able t		tcomes: momentum ar een vectors ar	
			BI - Be able to momentum in Drawing vecto	art(i The invention		
		Careers links -				
			Prior (Y9/10)	Current (Y11)	Next (Post 16)	
			the difference between	V-I Characteri stic graphs –	Y12/13 – Electricity - current- voltage	Early awa aware of

scalar and

quantities

examples)

vector

(with

Foundational Concepts

Forces and motion & Energy and circuits

Resolve a single force into two components (HT)

Key Concepts & Assessment

- Know how to calculate moments and understand the principle of moments
- Explain how a gas causes pressure and how pressure changes with altitude
- Know how hydraulic machines work
- Know how to calculate pressure
- Understand what causes high and low pressure.
- Know how hydraulic machines work
- Be able to explain how a gas causes pressure and explain how the pressure caused by a gas can change
- Know the standard circuit symbols
- Know where to place a voltmeter and ammeter in
- Be able to explain what is meant by voltage and know the rules for voltage in series and parallel circuits.
- Know what electrical resistance is
- Tier 2/3 Vocabulary
- Glossaries, quick quizzes, within exam questions, PowerPoints.

Key words:

characteristi

CS,

resistivity,

circuits

more

focus on

current

flow

through

Forces, resultant force, pressure, series, parallel, circuit, velocity, ammeter, voltmeter, current, potential difference, resistance

Links to wider disciplinary knowledge/cultural capital: history, culture, authentic artefacts, music, art(ists), literature?

The invention of the battery -- which could produce a continuous flow of current -- made possible the development of the first electric circuits. Alessandro Volta invented the first battery, the voltaic pile, in 1800.

Careers links - applications engineer, data analyst, design engineer, electrician, electrical engineer

- **Equality Diversity and Inclusion (EDI) links?**
- Early awareness of electricity among ancient Egyptians aware of shocks from electric fish.
- Korean-American Dawon Kahng helped invent the metal-oxide-semiconductor field-effect transistor (MOSFET) which has become the most-widely manufactured device in history.

			Y7 - forces devices Furt	/13 – ther chanics	Parent and Carers month/Black History month World afro day International day of sign languages world mental health day world teachers day World cerebal palsy day • Assessment (Quiz/Tests/application tasks/ ST: Including foundational concepts, wider disciplinary knowledge, key content.) • Week 6: Circuits & Forces FT Forces & circuits HT/Sep	
Half-Term			7 weeks (10)-11 lessons) ((35 Days)	
3-Nov	Α	9	Overview of Unit/No. lesso	ons .	Foundational Concepts - Energy and circuits	
10-Nov	В	10	Lesson Sequence of Conte Lesson 1 – Introduce the equation:		 Tier 2/3 Vocabulary - Glossaries, quick quizzes, within exam questions, PowerPoints. 	
17-Nov	Α	11	E= QxV Lesson 2 and 3 – Use the equation	s above and	 Links to wider disciplinary knowledge/cultural capital: history, culture, authentic artefacts, music, 	
24-Nov	В	12	circuit rules in calculations Lesson 3/4/5 VI Characteristics Lesson 6 – Thermistors and LDRs r	ocannod	art(ists), literature? • The invention of the battery which could	
1-Dec	Α	13	from practical carried out in Year 1 Lesson 7– ACDC and features of m	10	produce a continuous flow of current made possible the development of the first electric	
8-Dec 15-Dec	В	14	1	charged lications of etc and state the on circuits	circuits. Alessandro Volta invented the first battery, the voltaic pile, in 1800. The very first circuits used a battery and electrodes immersed in a container of water. Momentum, was actually introduced by the French scientist and philosophe Descartes before Newton • Careers links - applications engineer, data analyst, design engineer, electrician, electrical engineer • Equality Diversity and Inclusion (EDI) links? • Early awareness of electricity among ancient Egyptians aware of shocks from electric fish. • Korean-American Dawon Kahng helped invent the metal-oxide-semiconductor field-effect transistor (MOSFET) which has become the most-widely manufactured device in history. Mens health awareness month/disability confident month Divali Remembrance Sunday Transgender awareness week World Diabetes Day World AIDS day Christmas Day Assessment (Quiz/Tests/application tasks/ ST: Including foundational concepts, wider disciplinary knowledge, key content.) Week 13:	
	Α	15	and different devices		Thermistor Nat Grid FT Nat grid VI HT & Sep	

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	1 1	П
	Y7 - forces Different types of requation Year 9 — current (AC/DC) equation Wiring a plug HT: Momentum calculations, resolving a force Common misconceptions - confuse how to set up voltmeter and ammeter	
Christmas Holiday	6 weeks (9 lessons) (30	Dave
Christmas Holiday 5-Jan B	0 WEEKS (3 16350115) (50	Foundational Concepts
5-Jan B 16 A 12-Jan 17	Overview of Unit/No. lessons National Grid (3 lessons) & Electromagnetic	• Tier 2/3 Vocabulary
B 19-Jan ST2	induction (3 lessons)Lesson Sequence of Content:	Key words: Generator, transformer, potential difference, conservation, motor effect, induction
A ST2	Lesson 1 – Revision on energy resources Lesson 2 – Make up of national grid	Links to root words (etymology):
2-Feb B 20	Lesson 3 – Demand on the national grid Lesson 4 – Recap motor effect and link to induction Lesson 5 – Generators Lesson 6 – Transformers • Unit Learning Outcomes: GW BI EW Prior Current (Y9/10) (Y11) 16) Common misconceptions	 Current from the latin, currere, 'run' – defined as the flow of electric charge Voltage – commonly referred to as 'potential difference' – from the latin, potent/potential – being able/power Circuit, originates from latin, 'go round' Amps/amperes – named after French scientists Andre André-Marie Ampère Links to wider disciplinary knowledge/cultural capital: history, culture, authentic artefacts, music, art(ists), literature? The invention of the battery which could produce a continuous flow of current made possible the development of the first electric circuits. Alessandro Volta invented the first battery, the voltaic pile, in 1800. The very first circuits used a battery and electrodes immersed in a container of water.
A		Careers links - applications engineer, data analyst, design engineer, electrician, electrical engineer • Equality Diversity and Inclusion (EDI) links? • Scientists from different nationalities LGBT+ History month Holocaust memorial day World Hijab Day Children's mental health week.
9-Feb 21		Safer internet day Chinese New Year

Assessment (Quiz/Tests/application tasks/ ST: Inclu foundational concepts, wider disciplinary knowledg content.) Please Highlight the week number where feedback will be given (once per half term) Half-Term 6 weeks (9 lessons) (29 Days) 23-Feb B 22 2-Mar A 23 Overview of Unit/No. lessons Foundational Concepts	e, key
content.) Please Highlight the week number where feedback will be given (once per half term) Half-Term 6 weeks (9 lessons) (29 Days) 23-Feb B 22 • Overview of Unit/No. lessons • Foundational Concepts	
Half-Term 6 weeks (9 lessons) (29 Days) 23-Feb B 22 • Overview of Unit/No. lessons • Foundational Concepts	
23-Feb B 22 • Overview of Unit/No. lessons • Foundational Concepts	
2-Mar Δ 22	
9-Mar B 24 Exam Prep Women's history month Ramadhan begins	
16-Mar A 25 World Down Syndrome day	
23-Mar B 26 Transgender day of visibility Assessment (Quiz/Tests/application tasks/ ST: Inclu	ding
30-Mar foundational concepts, wider disciplinary knowledg	
(finish content.)	
Wednesday 1st April) Forces and motion ET 25-26	
Forces and motion FT 25-26	
Higher/Sep: Week 3	
Forces and motion HT and Sep 25-26	
A	
Easter Holiday 5 weeks (7-8 lessons) (23 Days)	
20-Apr B	
27-Apr	
A 29 Exam Prep	
4-May GCSE GCSE	
(Bank holiday B B GCSE	
11-May A GCSE	
18-May B GCSE	
Half-Term 7 weeks (10-11 lessons) (34 Days)	
1-Jun A GCSE	
9-Jun B GCSE	
16-Jun A GCSE Exam Prep	
23-Jun GCSE	
В	
(Total: 190 Days)	

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:

- 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?
- o For each Unit? By the end of the Year?
 - o GW: ; BI: ; EW
- Is it worth summarising in a knowledge organiser?

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What changes might need to be made to the Curriculum Intent (See Curriculum Map and Overviews) in light of this year's experiences?

- 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)
- How will you assess students understanding?
- How will written feedback be given?
- How can lessons be adapted?