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Year 11 Overview 2023-24 – *Physics*

Date	Wk	Week	Units Studied & Learning Outcomes	Key Concepts & Assessment
8 weeks (12 Lessons) (38 Days)				
Tues 5-Sep	A	1	Overview of Unit/No. lessons • Forces and motion revision and momentum for higher (7 lessons) • Energy and circuits (5 lessons) Lesson **Sequence** of Content: • Lesson 1 Revision of Newtons Laws of motion • Lesson 2 – Revision of Motion graphs and motion on a straight line • Lesson 3 – Vector diagrams and resolution of forces (H) • Lesson 4- 6 – Introduction to momentum and then calculations involving momentum in collisions and explosions (DONE IN YR10) • Lesson 7 – Pressure in gases • Lesson 8 – Recap of basic circuits – symbols and series/parallel • Lesson 9 – Investigating Series rules • Lesson 10 – Investigating Parallel rules • Lesson 11 – Using V=IxR and the circuit rules	
11-Sep	B	2		
18-Sep*	A	3		
25-Sep	B	4		
2-Oct	A	5		
9-Oct	B	6		
16-Oct	A	ST1		
23-Oct	B	ST1		

Prior	Current	Next
Y9 Recall the difference between scalar and vector quantities (with examples). Y7 - forces Year 9 – power equation Y 8 – Building circuits and circuit symbols, defining voltage and current	V-I Characteristic graphs – more focus on current flow through different devices Different types of current (AC/DC) Wiring a plug HT: Momentum calculations, resolving a force	Y12/13 – Electricity - current-voltage characteristics, resistivity, circuits Y12/13 – Further mechanics

GW - Be able to calculate momentum and know the difference between vectors and scalars

BI - Be able to use the conservation of momentum in collisions and explosions. Drawing vector diagrams

EW – Apply knowledge of momentum in different contexts and resolve pairs of forces

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Half-Term 7 weeks (10-11 lessons) (34 Days)

6-Nov	A	ST1	**Overview/number of lessons:** Circuit calculations and mains (9 lessons) **Lesson Sequence:** Lesson 1 – Introduce the equations P=IV, Q=It, E= QxV Lesson 2 and 3 – Use the equations above and circuit rules in calculations Lesson 3/4/5 VI Characteristics Lesson 6 – Thermistors and LDRs recapped from practical carried out in Year 10 Lesson 7– ACDC and features of mains electricity Lesson 8 – Wiring a plug Lesson 9 – Dangers of mains electricity Separates Lesson 10 – How objects become charged Lesson 11 – Electric fields and applications of static electricity
13-Nov	B	10	
20-Nov	A	11	
27-Nov	B	12	
4-Dec	A	13	
11-Dec	B	14	
18-Dec	A	15	

Prior	Current	Next
Y 8 – Building circuits and circuit symbols, defining voltage and current Y7 - forces Year 9 – power equation	V-I Characteristic graphs – more focus on current flow through different devices Different types of current (AC/DC) Wiring a plug HT: Momentum calculations, resolving a force	Y12/13 – Electricity - current-voltage characteristics, resistivity, circuits Y12/13 – Further mechanics

GW – Can use the equations P=IV etc and state the features of a mains plug

BI – Combine the circuit rules and the equations to perform calculations on circuits

EW – Can explain why mains electricity can be dangerous. Explain the VI characteristics of diode/resistor and filament bulb

Recall and application of knowledge, interpreting and analysing information and carrying out practical tasks

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Christmas Holiday 6 weeks (9 lessons) (30 Days)

8-Jan	B	16	**Overview/number of lessons:** National Grid (3 lessons) & Electromagnetic induction (3 lessons) **Lesson Sequence:** Lesson 1 – Revision on energy resources Lesson 2 – Make up of national grid Lesson 3 – Demand on the national grid
15-Jan	A	17	
22-Jan	B	18	
29-Jan	A	ST2	

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5-Feb	B	ST2	Lesson 4 – Recap motor effect and link to induction Lesson 5 – Generators Lesson 6 – Transformers Exam preparation
12-Feb	A	ST2	

Prior	Current	Next
Year 10 – electromagnetism	National grid Generators & transformers Motor effect	Year 12 – resistance, parallel resistance, internal resistance

GW – Describe advantages and disadvantages of the different energy resources used to generate electricity & Describe what the generator effect is

BI – Explain why demand on the National grid changes & Explain how a potential difference is induced in a wire

EW – Describe what the National grid is and why transformers are used & Explain how a generator and transformer works

Half-Term			5 weeks (7 - 8 lessons) (24 Days)
26-Feb	B	22	GCSE Preparation
4-Mar	A	23	
11-Mar	B	24	
18-Mar	A	25	
25-Mar*	B	26	
Easter Holiday			6 weeks (9 lessons) (29 Days)
15-Apr	A	27	GCSE preparation
22-Apr	B	28	
29-Apr	A	29	
6-May*	B	30	
13-May	A	GCSE	
20-May	B	GCSE	
Half-Term			7 weeks (10-11 lessons) (35 Days)
3-Jun	A	GCSE	
10-Jun	B	GCSE	
17-Jun	A	GCSE	

24-Jun	B	Contingency		
(Total: 190 Days)				

* Bank Holidays

Prompt Questions

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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?
  - 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)