

## Curriculum Map

### Year 10 Physics

Date	Week	Lesson 1	Lesson 2
01-Sep	1	Energy Stores and transfers	Conservation of energy and Work Done
08-Sep	2	GPE, KE and Elastic Potential Energy Equations	Energy Calculation Practice
15-Sep	3	Conservation of Energy with Equations	Dissipation and Efficiency
22-Sep	4	Energy and Power	Power Stations and Energy Demands
29-Sep	5	Solar, Wind and Water Energy resources	Nuclear Energy
06-Oct	6	Energy transfer by Conduction	Thermal Insulation Practical
13-Oct	7	Infrared Radiation and Blackbodies	Specific Heat Capacity Theory and Equation
20-Oct	8	Specific Heat Capacity Practical	SHC Evaluation and Exam Practice
28-Oct			
03-Nov	9	Heating and Insulating Buildings	Assessment (Energy and History of Atom)
10-Nov	10	<b>Molecules and Matter</b> Density theory and calculations	Density Required Practical
17-Nov	11	Internal Energy and Changing State	Assessment Feedback and Improvements
24-Nov	12	Heating substances and graph drawing (chocolate?)	Heating/Cooling graph theory



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01-Dec	<b>13</b>	Specific Latent Heat Theory	SLH and SHC calculations
08-Dec	<b>14</b>	Gas Pressure and temperature	Gas pressure and volume
15-Dec	<b>15</b>	Revision	Revision
23-Dec			
30-Dec			
05-Jan	<b>16</b>	<b>Atomic Structure</b> Unstable nuclei and radioactivity	Radioactivity Alpha, beta and gamma (demo of sources)
12-Jan	<b>17</b>	Alpha, beta & gamma (uses and dangers)	Changes in the nucleus
19-Jan	<b>18</b>	Half life definition and graph (dice practical)	Half life calculations
26-Jan	<b>19</b>	Half life calculations (2)	Suitable sources for use
02-Feb	<b>20</b>	Radiation in medicine	Fission
09-Feb	<b>21</b>	Fusion	Nuclear Issues
17-Feb			
23-Feb	<b>22</b>	Revision	Assessment (all content so far)
02-Mar	<b>23</b>	<b>Electric Circuits</b> Electric fields	Static electricity and Electric Shocks
09-Mar	<b>24</b>	Circuit symbols and drawing circuits	Assessment Feedback and Improvements
16-Mar	<b>25</b>	Current and Charge	Potential difference and Resistance



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23-Mar	26	Resistance of a wire Practical	I-V characteristics theory
07-Apr			
14-Apr			
13-Apr	27	I-V characteristics Practical	I-V characteristics theory (2)
20-Apr	28	I-V characteristics exam questions	Series circuits
27-Apr	29	Parallel Circuits	Resistance in Series and Parallel (Comp Practical)
04-May	30	Circuit Rules	AC, DC and National Grid
11-May	31	Oscilloscopes	Cables and plugs
18-May	32	Earth wire and Fuses	Electrical Power and Efficiency
26-May			
01-Jun	33	Revision	Revision
08-Jun	34	2019 CS Paper 1 WTM	Revision
15-Jun	35	Revision	EoY Assessment
22-Jun	36	<b>Waves</b> Nature of Waves	Wave properties
29-Jun	37	Assessment Feedback and Improvements	Assessment Feedback and Improvements
06-Jul	38	Equations of waves	Reflection and Refraction
13-Jul	39	Waves required practical (part 1)	Waves required practical (part 2)