



Y11 Learning Journey. Subject: Combined Science (Physics)

Exam Requirements: Your GCSE in Combined Science (Physics) is structured, and examined, in the following way:

Paper One: 1 hour 15 minutes – 17% of your overall combined science grade	Paper Two: 1 hour 15 minutes – 17% of your overall combined science grade
<ul style="list-style-type: none">• Energy (topic 1)• Electricity (topic 2)• Particle nature of matter (topic 3)• Atomic Structure (topic 4)	<ul style="list-style-type: none">• Forces (topic 5)• Waves (topic 6)• Magnetism and Electromagnetism (topic 7)

Overview of the Year:

Please note that, due to the nature of the combined science course of three sciences and 4 hours per week, a “rotation” structure where one science will have two lessons a week over 4 weeks has been implemented. Due to this, different classes will be at different stages of the course through the year.

P12.1 The Nature of Waves
P12.2 The Properties of Waves
P12.3 Reflection and Refraction (Higher tier only)
REQUIRED PRACTICAL 9 – Refraction (1 lesson only)
REQUIRED PRACTICAL 8 – Ripple Tank (1)
REQUIRED PRACTICAL 8 – Ripple Tank (2)
P13.1 Electromagnetic Waves
P13.2 – Light, Infrared, microwaves and radio waves (some aspects are higher only)
P13.3 – Communications
P13.4 – Ultraviolet waves, X-rays and gamma waves
Topic 6 Knowledge Check
Topic 6 Knowledge Check Feedback
Revision for Y11 Assessment Week
Y11 AW1 Assessment Week (Paper 1) – whole school
Y11 Assessment Week Feedback
P15.1 Magnetic Fields

P15.2 Magnetic fields of electric currents
15.3 Electromagnets
P15.4 The Motor Effect (1)
P15.4 The Motor Effect (2)
Topic 7 Knowledge Check
Topic 7 Knowledge Check Feedback
Where possible, practice “predicted papers” and coaching will occur before the upcoming assessment week
Revision for Y11 Assessment Week 2
Y11 AW2 Assessment Week 2 (Paper 2)
Feedback for Y11 Assessment Week 2
After this point, time will be spent completing an exam coaching and revision program, which will include practice exams and “deep dives” into question structures and how to best attempt them. Regular practice papers will be completed and assessed at the class teacher’s discretion.
Exams Start

<p>Exam Practice:</p> <p>You can find past papers to help support your revision and develop your exam technique here:</p> <ul style="list-style-type: none"> • www.Physicsandmathstutor.com 	<p>Revision Materials:</p> <p>We advise that you use the following revision materials:</p> <p>Please refer to “the one document” revision resource for all revision needs. This can be found in the following area in the shared G drive;</p> <p>G:\Science\Home learning physics\GCSE additional resources</p>
<p><u>Glossaries:</u></p> <p>Vocabulary lists to support your revision can be found here:</p> <p>Subject specific vocabulary (aqa.org.uk) – for science specific vocabulary</p> <p>Physics Glossary AQA GCSE Flashcards Quizlet – quizlet with flashcards on physics specific key terms</p>	<p><u>Advice and Guidance for Revision</u></p> <p>Include any other helpful tips, guidance or advice about how to approach revision in your subject here:</p> <ul style="list-style-type: none"> • revise short and often – maximum 45 mins to an hour at a time (unless doing a past paper) once or twice a week • PAST PAPERS ARE KEY – these are the best way to revise • Ask your teachers for resources and revision help (or watch the lesson videos in the one document resource) <p>Our intention is to run revision classes every Wednesday after school – these are well worth turning up to!</p>

