

SUBJECT GCSE Physics	YEAR 10 & 11
HEAD OF DEPARTMENT Miss E James	
GROUPING POLICY Students are grouped by ability	
EXAM BOARD AQA	
ASSESSMENT: 100% External examination	
<p>Link to Specification: Students follow the AQA GCSE Physics course. This is examined at the end of Year 11.</p> <p>http://www.aqa.org.uk/subjects/science/gcse/physics-8463</p>	
<p>COURSE CONTENT</p> <p><u>What will my child learn?</u></p> <p>Over the two years of the GCSE course, students will study the following topics:</p> <ol style="list-style-type: none"> 1. Energy: what is energy? How and why is it transferred? 2. Electricity: how do electrical circuits behave? How is electricity generated? 3. The particle model of matter: how do atoms and molecules behave in solids, liquids and gases? What happens when their temperature changes? 4. Atomic structure: everything in the universe is made of atoms; students will learn about their structure and how they were discovered. 5. Forces: students will learn about the different types of forces that act in the world around them, and how they affect the motion of objects. 6. Waves: we will look at different types of waves: light, sound and seismic waves. 7. Magnetism and electromagnetism: What are magnets and how are they used? 8. Space Physics: Students will learn about how the universe began, how stars like our sun formed, and explore theories for how the universe will end. 	
<p>What will homework look like?</p> <p>Students will be set one homework per week. This may be a written task to consolidate material learnt in class, revision for a test or the learning of key terminology.</p>	
<p>What enrichment opportunities are available?</p>	

Appropriate enrichment opportunities will be arranged and communicated to students as this new course progresses.

ASSESSMENT

How will my child's work be assessed?

Students will be assessed formally by each teacher in every reporting cycle; the test will be common to the whole cohort. As this is a new course, students will be given estimated 1-9 grades for these tests. We will also use mathematical techniques to track students' progress against prior attainment. All of those who we judge not to be progressing as we expect will be invited to attend a retest in the first instance, and then considered for additional support. In addition, students' progress will be assessed continuously through their classwork, homework and smaller in-class tests.

Practical skills will be developed through 'required practicals' set by the exam board. These are examined formally in the written examinations at the end of Year 11, however, students will need to have experienced the class practicals in order to answer the questions. Students who miss the practicals will be asked to catch up, and invited for additional support after school if they do not or cannot do this themselves.

There are two written examination papers which students will sit at the end of Year 11. Each paper will assess a set of topic areas and consist of a mixture of multiple choice, structured, closed short answer and open response questions

Paper 1 – Assesses the topics on Energy; Electricity; Particle model of matter; and Atomic structure (50% of GCSE), 1 hour 45 minutes

Paper 2 – Assesses the topics on Forces; Waves; Magnetism and electromagnetism; and Space physics (50% of GCSE), 1 hour 45 minutes

ADDITIONAL INFORMATION

How can I support my child in this subject?

- Be positive about learning Science when speaking to your child, whatever your personal experience of Science was.
- Discuss what your child is learning in Science with them; get them to explain everyday phenomena to you. Draw their attention to and discuss scientific advances that are reported in the news.

- Your child should receive homework weekly – please insist that this is completed to a good standard. If you are able to, help your child to complete the homework. If they are stuck, encourage them to contact their teacher, who will be happy to help.
- Look through your child's Science book with them. Discuss the feedback they have received and how they can improve. Ask them to show you work that they are interested in or proud of.
- Encourage and help them to learn key words and formulae.

How can I support my child with exams?

- Upcoming tests will be written in your child's planner. Help them to identify the material they need to revise.
- Help your child to plan their revision – a little, often is much better than cramming.
- Try to encourage your child to revise actively by condensing their notes, making mind maps, making revision cards. Ask them to identify specifically what they are learning then test them on it.