



Wallington High School for Girls

Sixth Form

Subject: Physics	Exam board: Edexcel (9PH0)
Course information:	
Year 13 External Exams	
Paper 1: Advanced Physics I (30%, 1h 45m, 90 marks) Topic 1: Working as a Physics Topic 2: Mechanics Topic 3: Electric Circuits Topic 6: Further Mechanics Topic 7: Electric and magnetic Fields Topic 8: Nuclear and Particle Physics	Paper 2: Advanced Physics II (30%, 1h 45m, 90 marks) Topic 1: Working as a Physics Topic 4: Materials Topic 5: Waves and Particle nature of Light Topic 9: Thermodynamics Topic 10: Space Topic 11: Nuclear Radiation Topic 12: Gravitational Fields Topic 13: Oscillations
Paper 3: General and Practical Principles in Physics (40%, 2h 30m, 120 marks) Questions in this paper may draw on any of the topics in this specification. The paper will include synoptic questions that may draw on two or more different topics The paper will include questions that assess conceptual and theoretical understanding of experimental methods (indirect practical skills) that will draw on students' experiences of the core practical.	
<p>This is a linear course, meaning all content is examined at the end. You will cover topics 1 to 6 in Y12 and the rest in Y13.</p> <p>As part of your A-level, you will also work towards the Practical Endorsement. This is a pass or fail qualification that will appear on your certificate as a separately reported result, alongside the overall grade for your A-level.</p> <p>Summer Transition Work:</p> <p style="text-align: center;">Contact email prandall@wallingtongirls.org.uk</p> <p style="text-align: center;">Task: Isaac Physics tasks</p> <ol style="list-style-type: none">1) Click this link and setup an account Create an Isaac Science account — Isaac Science (you can use any email for this)2) When you have logged into your account click this link: https://isaacscience.org/account?authToken=PUXXWK You may have to grant access to your information; all you are granting is that I can see your name. You should now see 'P.Randall' under teacher connections. Alternatively: login and click on 'My Isaac' then 'My account', click on the 'teacher connections tab', Enter the code PUXXWK; and click 'apply code'.3) Click 'My Isaac' again and then on 'my assignments' you should then see 7 boards to complete Click on the purple hexagons to answer the questions. You are expected to answer all the questions.4) To help you may need to refer to the information here on significant figures: https://isaacphysics.org/solving_problems If you get the 'correct' numerical answer but it is to the wrong number of significant figures Isaac Physics will mark it incorrect. You may need some help on SI units if so please refer to these videos:	



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<https://www.youtube.com/watch?v=jLRoseFxm30>

<https://www.youtube.com/watch?v=Sb8cxC4lOy8>

Optional extra activities

You should also start to **explore** Physics as a subject more. You could:

- o Read some popular Physics books or science magazines (such as 'New Scientist').
- o Attend an exhibition or lecture at a museum or university.
- o Watch some documentaries or listen to some podcasts (such as BBC2's 'The Infinite Monkey Cage').

Approximate completion time: 4-5hrs

Suggested Summer Wider Reading: Six easy pieces by Richard Feynman

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