

# HIGHER PHYSICS ESSENTIAL INFORMATION

Which topics are covered at Higher?		What apps and websites can I use to support my learning?			
Our Dynamic Universe	Motion – equations and graphs Forces, energy and power Collisions, explosions and impulse Gravitation Special relativity The expanding Universe	<a href="https://scholar.hw.ac.uk/courses/">https://scholar.hw.ac.uk/courses/</a> <a href="https://www.bbc.co.uk/bitesize/subjects/zpyb4wx">https://www.bbc.co.uk/bitesize/subjects/zpyb4wx</a> <a href="https://www.sqa.org.uk/pastpapers/findpastpaper.htm">https://www.sqa.org.uk/pastpapers/findpastpaper.htm</a> <a href="https://www.youtube.com/@MrMitchellPhysics">https://www.youtube.com/@MrMitchellPhysics</a> <a href="https://www.youtube.com/@MrSmithsPhysicsonline">https://www.youtube.com/@MrSmithsPhysicsonline</a>			
Particles and Waves	Forces on charged particles The Standard Model Nuclear reactions Inverse square law Interference Spectra Refraction of light				
Electricity	Monitoring and measuring AC Current, potential difference, power and resistance Electrical sources and internal resistance Capacitors Semiconductors and p-n junctions				
		<b>Are there important dates of which I should be aware?</b> Sep/Oct – Formal Assessment Phase 1 January – Formal Assessment Phase 2 Mar – Assignment (20% of final grade) May – Final exam			
How is the course assessed?					
COMPONENT	DETAILS	LENGTH	MARKS	SCALED	%
<b>FINAL EXAM</b> Paper 1:	<b>Multiple Choice</b>	45 minutes	25 marks	25 marks	16.7%
<b>FINAL EXAM</b> Paper 2:	<b>Short Response Questions</b>	2 hours 15 mins	130 marks	95 marks	63.3%
<b>INTERNAL EXAM:</b> Assignment	Assignment - undertaken in class under close supervision. Submitted to SQA for marking	8 hours, of which a maximum of 2 hours is allowed for the report stage	20 marks	30 marks	20%
<b>What resources do I need?</b> Resources from lessons (One Note and Teams) Login details to essential websites (above)		<b>What else can I do to improve?</b> Attempt past papers (blind to marking instructions) and then check your answers. Pay particular attention to command words in past paper questions and what the answer requires. Practise use of your calculator. Learn the SI Unit prefixes and practise use of indices. Read the course reports ( <a href="https://www.sqa.org.uk/sqa/47916.html">https://www.sqa.org.uk/sqa/47916.html</a> ) to see the common errors made by candidates. Consistently use the “equation, substitution, final answer” method for calculations. Practise using the relationship sheet and data sheet when answering questions.			
<b>Where can I find more information about the exam and assignment?</b> The SQA Understanding Standards provides exemplars and grades awarded. <a href="https://www.understandingstandards.org.uk/">https://www.understandingstandards.org.uk/</a>					
<b>Where do I find the past papers?</b> These are on One Note but you will also find past papers back to 2018 on the SQA site. <a href="https://www.sqa.org.uk/pastpapers/findpastpaper.htm">https://www.sqa.org.uk/pastpapers/findpastpaper.htm</a>					
<b>Where do I find more information about the course?</b> <a href="https://www.sqa.org.uk/files_ccc/HigherCourseSpecPhysics.pdf">https://www.sqa.org.uk/files_ccc/HigherCourseSpecPhysics.pdf</a>		<b>How do I ensure top marks?</b> Work consistently throughout the year. Listen to and act on teacher feedback. Prepare for all assessments. Take advantage of study support opportunities.			