

CfE Higher Physics

During S4/S5 pupils worked through three Physics units at National 4 and 5 level. The successful achievement of National 5 level in S4 or S5 allows progression to CFE Higher Physics in S5/6.

Higher Physics covers four units:

- Our Dynamic Universe
 - Particles and Waves
 - Electricity
 - Researching Physics.
- The content of the Higher course requires prior knowledge from National 5. Each unit is assessed individually and marked internally (and can be externally verified). There are two parts to the assessment and all must be passed to attain the unit:
- *A practical experiment and write up*
 - *A test on course content and problem solving*
- At Higher
- all units + externally marked assignment + externally marked final exam = course grade
- We will not put a pupil forward for the final exam without being confident we have the evidence required to support an award at Higher.**

The assignment

- The assignment that has been selected to ensure all pupils can achieve in terms of challenge, breadth and application.
- Some class time will be given within the year and this will be completed prior to the deadline before Easter holidays. This will be filed for uplift.

The prelim

- The prelim is created to challenge pupils at Higher. It will form an important piece of evidence for final decisions on presentations, as well as give an essential opportunity to revise and deal with issues in content. Most of the revision will need to be done outside of class time.
- It will be a 2hr 30min prelim; 20 marks Multiple Choice and 110 marks Short Answer Questions.
- It will cover 2 full units content, with the 3rd unit being assessed in a mini-prelim later in the year. Problem Solving questions will also be in the prelim.

Resources

- In school, in addition to normal class time, after school study is running on Monday, Tuesday and Thursday 3.30-4.30pm. **To gain an award in Physics, study out with the classroom is required. At least 4 hours a week of study is recommended to ensure the standard required is met. Homework is an integral part of the course allowing both the pupil and teacher to assess if progress is being made. Formal homework will be given once a week and will take a variety of forms.**
 - Since there has only been 1 prior exam, there is a specimen paper and a past paper fully on Higher. However, intermediate and old higher papers can be made available to the pupils for practice.
 - Revision websites
 - HyperPhysics - <http://hyperphysics.phy-astr.gsu.edu/hbase/hframe.html>
 - BBC Bitesize - <http://www.bbc.co.uk/education/subjects/z6fsgk7>
 - Mr Marshallsay's Physics Site - <http://smarshallsay.weebly.com/national-5.html>
 - Mr MacKenzie's Physics Site - <http://mrmackenzie.co.uk/category/national-5>

Assessment Dates:

The dates below represent an approximate timeline for course assessments.

Week	Term	Assessment
2	June	Higher Key Area Tests (Motion – Equations and Graphs)
4		Higher Key Area Tests (Forces – Energy and Power) (Collisions, Explosions & Impulse)
15	Term 1: August - October	Higher Key Area Tests (Gravitation) (Special Relativity) (The Expanding Universe)
16		Higher Key Area Tests (The Expanding Universe)
17		Higher End of Unit Tests - ODU
18		Higher Key Area Tests (The Standard Model)
19		Higher Key Area Tests (Forces on Charged particles)
24	Term 2: October - December	Higher Key Area Tests (Nuclear Reactions) (Wave Particle Duality)
25		Higher Key Area Tests (Interference & Diffraction) (Refraction of light) (Spectra)
27		Higher End of Unit Test – Particles and Waves
28		Researching Physics Unit
29		Researching Physics Unit
33	Term 3: January - April	Assignment
34		Assignment
35		Higher Key Area Tests (Monitoring and Measuring a.c.) (Current, potential difference, power and resistance)
36		PRELIMS
37		
38	Term 3: January - April	Higher Key Area Tests (Electrical Sources and Internal Resistance) (Capacitors)
40-41		Higher Key Area Tests (Conductors, Semiconductors and Insulators) (p-n Junctions)
42		Higher - End Of Unit Test – Energy and Electricity
49		SQA EXAMS - PHYSICS - 24TH MAY
50		
51		
52		

<http://www.sqa.org.uk/sqa/41615.html> link for SQA personal exam timetable builder