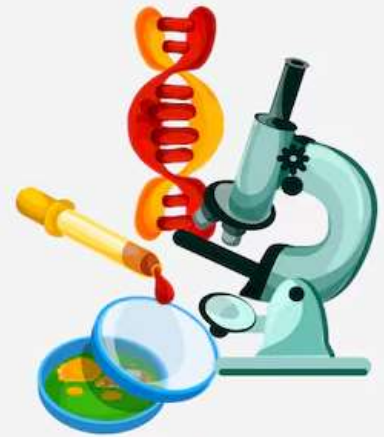




Chemistry



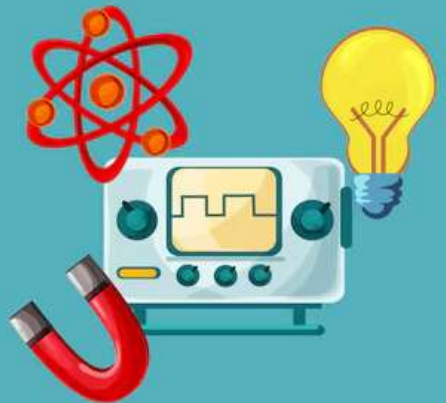
Biology



SCIENCE



ENVIRONMENTAL
SCIENCE



Physics

National 5 Science

Biology, Chemistry, Physics, Environmental Science

All have a similar structure:

3 Units of study with an exam at the end of the course

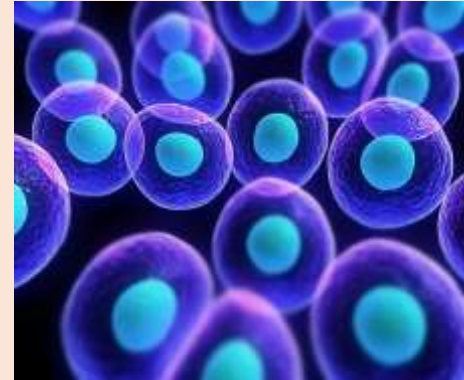
An Assignment coursework task



National 5 Biology

Unit 1: Cell biology

Cell structures and functions, transport of molecules, producing new cells, DNA, proteins, enzymes, genetic engineering



Unit 2: Multicellular Organisms

Organ systems, stem cells, nerves & hormones, reproduction, inheritance, respiration



Unit 3: Life on Earth

Biodiversity, energy in ecosystems, sampling the environment, adaptation & evolution, human impact on the environment



National 5 Chemistry

Unit 1: Chemical changes and structure

rates of reaction; atomic structure and bonding related to properties of materials; formulae and reacting quantities; acids and bases.



Unit 2: Nature's chemistry

homologous series; everyday consumer products; energy from fuels.



Unit 3: Chemistry in society

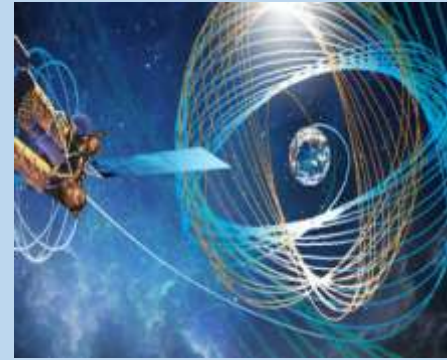
metals; plastics; fertilisers; nuclear chemistry; chemical analysis



National 5 Physics

Unit 1: Dynamics & Space

vectors and scalars; velocity–time graphs; acceleration; Newton’s laws; energy; projectile motion; space exploration; cosmology.



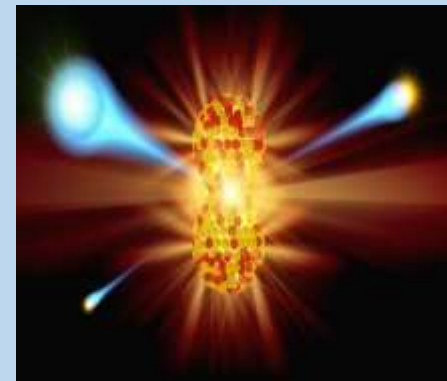
Unit 2: Electricity & Matter

electrical charge carriers; potential difference (voltage); Ohm’s law; practical electrical and electronic circuits; electrical power; specific heat capacity; specific latent heat; gas laws and the kinetic model



Unit 3: Waves & Radiation

wave parameters and behaviours; electromagnetic spectrum; refraction of light; nuclear radiation.



National 5 Environmental Science

Unit 1: Living environment

*investigating ecosystems and biodiversity;
interdependence; human influences on biodiversity*



Unit 2: Earth's resources

*an overview of Earth systems and their
interactions the geosphere; the hydrosphere;
the biosphere; the atmosphere*



Unit 3: Sustainability

*an introduction to sustainability; food; water;
energy; waste management*



National 5 Assessment – Exams

All subjects are a similar format & length:

Biology & Chemistry

2 hours

80 marks =
80% of final
mark

Physics

2 hours

110 marks =
80% of final
mark (scaled)

Environmental Science

2 hours 15min

90 marks =
80% of final
mark (scaled)

National 5 Assessment – Assignments

Contribute up to 20% of the overall mark

All subjects are the same format & requirements:

8 hours in-class work, of which 1 hour 30 minutes is for a written report under exam conditions

National 5 Assessment – Assignments

In all subjects, the assignment is based on a piece of practical work (investigation) completed in class.

There will be some element of pupil choice in the investigation

Pupils also have to gather other sources of information and data on the area of investigation they have done

National 5 Assessment – Assignments

Pupils are allowed access to only certain documents during the write-up stage:

Their “Instructions for Candidates” document – unaltered

Their experimental data and a method diagram

Their data and extracts gathered from other sources

National 5 Assessment – Assignments

During the report write-up pupils are **not** permitted:

- A pre-prepared draft of any part of their written report.
- Access to any other materials or the internet
- Any opportunity to re-draft their report after the report-writing stage

Teachers must not read the reports or provide any form of feedback to candidates during the report stage.

Resources

Pupils all have access to online support resources:



Google classroom –
all materials
from class



Achieve website –
summary notes,
questions, target-
setting etc



West OS -
Explanatory videos
(accessed via Glow)

(Pupils can contact their class teacher or the school office if they need a reminder of log-in details)

In addition, the following sites are open to all:



Qualifications Scotland website - Past exam papers

<https://www.sqa.org.uk/pastpapers/findpastpaper.htm>



Jabchem website – past papers going back to the beginning of all CfE courses in the sciences and maths <https://jabchem.org.uk/>



BBC Bitesize website - Summary notes, videos, questions

Support

There are regular after school and lunchtime study support sessions in the Science department

These are listed on the school website:



- Curriculum Rationale
- Summary
- Communication
- Expressive Arts
- Health and Wellbeing
- Library
- Meadowpark
- Numeracy and Computing
- Numeracy For All
- Pupil Support
- Sciences
- Social Subjects
- Extra-Curricular
- Supporting Your Studies
- Course Choice

Ambitionity

Knox Academy is the secondary school for Haddington and surrounding areas in East Lothian, Scotland, UK. It is our mission to develop our young people's sense of who they are, where their strengths lie and their role in the community where everyone is equal.

Every individual has potential and our aim is to help our students know how to go about realising it, with challenges which prepare them for future life and work and the higher qualifications and skills to move on to the next phase in their lives and a range of extra-curricular activities.

1 2 3 4 5 6

TRANSLATE

Select Language ▼

GOOGLE APPS



"Always to choose kindness and create a respectful environment where staff and pupils can inspire each other to achieve their goals and become life-long learners."

Recent News

LOCAL JOB VACANCIES

Good morning, Please see the link below to this week's vacancies. East Lothian Works -...

LOCAL JOB VACANCIES

WHAT'S HAPPENING?

THE BULLETIN

ANTI-BULLYING

YOUNG CARERS



- Curriculum Rationale Summary
- Communication
- Expressive Arts
- Health and Wellbeing
- Library
- Meadowpark
- Numeracy and Computing
- Numeracy For All
- Pupil Support
- Sciences
- Social Subjects
- Extra-Curricular
- Supporting Your Studies
- Course Choice

Respect

We work closely with our [Parent Council](#) and [Parent Teacher Association](#) who both meet on a regular basis. All are welcome to attend these meetings.

Overall Ambition, Respect and Community are our core ethos values driving forwards the development of positive relationships between staff, other students and the local community.

- 1
- 2
- 3
- 4
- 5
- 6

TRANSLATE

Select Language ▼

GOOGLE APPS



"Always to choose kindness and create a respectful environment where everyone can inspire each other to achieve their goals and dreams"

Recent News

LOCAL JOB VACANCIES

Good morning, Please see the link below to this week's vacancies

LOCAL JOB VACANCIES

- Parental Consent Forms
- Extra-Curricular Timetable
- Active Schools
- Amnesty International
- BBC School Report
- Environmental Groups
- Formula 1 in Schools
- The Film Club
- Knox Academy Film Productions
- Kid Witness News

Students can inspire each other

WHAT'S HAPPENING?

THE BULLETIN

ANTI-BULLYING

YOUNG CARERS



TRANSLATE

Select Language ▼



Home » Curriculum » Extra-Curricular » Extra-Curricular Timetable (including Study Support)

Extra-Curricular Timetable (including Study Support)

There are a range of extra-curricular activities available on offer at Knox Academy. Speak to your teachers, and keep an eye out in [The Bulletin](#) for activities which match your interests, skills, or ambition to try something new!

You can also start your studies with support from members of staff early in the session. A number of revision classes are run each year. Speak with your teachers to find out what extra support is available to assist you in achieving your goals.

- Details of sporting activities can be found in the most recent [Active Schools Online Sports Timetable](#) with a [Guide to Booking Live - Step by Step](#)
- Please see [Extra Curricular Support Timetable 2026 2027](#) for full details.

Posts from @knoxacademy



Knox Acad... X
1 · Nov 7, 2018

Great to see the pupils of Knox Academy celebrating Haddington 700 this afternoon. Thanks to the S6 Team who coordinated our photograph, and to all those who participated. [#community](#) [@haddington700](#)



0 4 2 67



[Direct link](#)



Ambition | Respect | Community

Extra-Curricular Support Timetable 2026-2027

Members of ASEP will support you in your studies. Please speak with individual teachers to discuss any additional support needed to assist you to achieve your AIMS/ETPS.

Activity	Open to	Starts	Time	Location	Contact
English/Additional English/ French/English					
Psychology	All Levels	21 August 2026	Monday & Wednesday 10.30 - 10.50	M.6	Ms Bullock
Psychology	All Levels	27 June 2026	Monday & Wednesday 10.30 - 10.50	M.6	Ms Bullock
Art & Design	All Levels	22 September 2026	Tuesday & Thursday 12.30 - 13.30	Art Dept	Ms Reynolds
Art & Design	All Levels	22 September 2026	Tuesday & Thursday 10.30 - 10.50	Art Dept	Ms Reynolds/Ms. Johnston
Art & Design	SB and Higher	27 August 2026	Wednesday & Thursday 10.30 - 10.50	Art Dept	Ms Hurdley
Monday					
Modern Studies	All Levels	21 August 2026	10.30 - 10.50	M.3	Ms Douglas
Physics	All Levels	21 August 2026	10.30 - 10.50	Physics	Ms Goodwin
Music	All Levels	22 September 2026	10.30 - 10.50	Music Hall 2	Ms Madeline
Business Management	Higher	27 September 2026	10.30 - 10.50	M.11	Ms Ferguson
Modern Studies	All Levels	27 September 2026	10.30 - 10.50	M.3	Ms Douglas
Geography	All Levels	27 September 2026	10.30 - 10.50	M.8	Mr Clark
Biology	All Levels	21 August 2026	10.30 - 10.50	T2.8	Ms Pook
Biology	All Levels	24 August 2026	12.30 - 13.30	Biology	Ms Nish
English	All Levels	21 September 2026	10.30 - 10.50	T2.1	Mr Edwards
Mathematics	Mat 1 & Above	27 September 2026	Lunchtime	M1.6	Ms Halden
Spanish	All Levels	21 September 2026	10.30 - 10.50	T1.2	Ms Laid
French	Higher	21 September 2026	10.30 - 10.50	T1.1	Ms Poulton

Wednesday					
Physics	All Levels	21 August 2026	10.30 - 10.50	Physics	Mr Hogg
Economics	Higher	22 September 2026	10.30 - 10.50	ECC	Mr Pook
Geography	All Levels	22 September 2026	10.30 - 10.50	M.9	Ms Stott
History	All Levels	22 September 2026	10.30 - 10.50	M.7	Mr Purgess
Chemistry	SB	21 September 2026	12.30 - 13.30	T1.12	Ms Andrews & Mrs Chaz
Mathematics	Mat 1 & Higher	22 September 2026	Lunchtime	M1.9	Mr Hogg
PE	All Levels	22 September 2026	10.30 - 10.50	PE Dept	Ms Cook
Biology	All Levels	24 August 2026	10.30 - 10.50	Biology	Mr Bayle
English	All Levels	21 September 2026	10.30 - 10.50	T2.2/2.3	Ms Butler & Ms Smith
Thursday					
Physical Education	SB	19 September 2026	Lunchtime	M1.1	Ms Shepherd
Administration & IT	All Levels	27 September 2026	10.30 - 10.50	M.12	Mr Dempster
Business Management	Mat 1 & Above	22 September 2026	10.30 - 10.50	ECC	Mr Pook
History	All Levels	22 September 2026	10.30 - 10.50	M.7	Ms Andrews
Chemistry	Higher/Advanced Higher	22 September 2026	12.30 - 13.30	T1.12	Mr Cook & Mr Pook
Biology	All Levels	24 August 2026	10.30 - 10.50	Biology	Ms Stott
Biology	All Levels	24 August 2026	12.30 - 13.30	Biology	Mr Bayle
Mathematics	All Levels	22 September 2026	Lunchtime	M1.2	Ms Campbell
Mathematics	Targeted Support - through week only	19 September 2026	Lunchtime	M1.6	Mr Stott
Mathematics	All Levels	27 September 2026	Lunchtime but unable to speak to Mr Stott	M1.2	Mr Stott
English	All Levels	21 September 2026	10.30 - 10.50	T2.4	Ms Smith
Friday					
Physics	All Levels	21 August 2026	10.30 - 10.50	Physics	Mr Goodwin
Business & Admin	SB	10 September 2026	10.30 - 10.50	M.12	Ms Ferguson/Ms Dempster
MT	SB & 1424888	22 September 2026	10.30 - 10.50	M.12	Ms Stott
Biology	All Levels	24 August 2026	10.30 - 10.50	Biology	Ms Macdonald
English	All Levels	21 September 2026	10.30 - 10.50	T2.2/2.3	Ms Reynolds/Ms. Johnston
Mathematics	Mat 1 & Higher	10 September 2026	Lunchtime	M1.6	Ms Douglas
French/Spanish	SB	21 September 2026	12.30 - 13.30	M1.1 & 2	Ms Stott

Subject
Currently no activities scheduled

Studying

At all levels, the course content needs to be learned thoroughly

- Summary notes, mind maps, flashcards

DNA

- DNA is a polymer made up of two strands forming a double helix
- DNA is contained in structures called chromosomes
- A gene is a small section of DNA on a chromosome
- Each gene codes for a particular sequence of amino acids to make a specific protein
- A genome is the entire genetic material of an organism



DNA structure

DNA contains four bases

A - adenine } pair together
T - thymine }
C - cytosine } pair together
G - guanine }



Practising SQA exam questions and checking the answers is really valuable

Study planning / timetable

If they haven't already, pupils would benefit from creating a study plan to divide up their time and their course into manageable chunks

MONTHLY STUDY PLANNER

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY

