

# For The Academic Year 2016/2017

## Brookhouse Secondary School



as/a2



**Option  
choices booklet**

advanced subsidiary and advanced  
level examinations



# BROOKHOUSE SCHOOL

## PHILOSOPHY AND MISSION STATEMENT

### Mission Statement:

*“Our mission is to give each child every opportunity to learn to excel”*

### School Philosophy

Brookhouse is a co-educational day and boarding school for children aged 2-19, offering an adapted form of the British National Curriculum to Kenyan and international pupils. The pursuit of academic excellence is at the centre of our educational philosophy and approach.

Equally, as a global member of the Round Square association of schools worldwide, we believe that a school should foster courage, generosity, imagination, principle and resolution so that children emerge empowered with the skills and abilities to be the leaders and guardians of tomorrow's world. We endeavour to provide the security and guidance necessary for children to achieve their potential in a friendly and supportive but academically rigorous atmosphere.

As such we commit ourselves to the Round Square ethos by considering the six foundation pillars of Round Square as central to our holistic approach to education, augmenting our intrinsic commitment to academic excellence. The six pillars or IDEALS are: **Internationalism; Democracy; Environment; Adventure; Leadership and Service.**

Interpreting these pillars as the core of our school community, we believe in:

- Clear expectations in relation to academic performance, ethical standards and behaviour, combined with positive reinforcement to develop in children their self-confidence and self-esteem
- Providing the opportunity for children to learn the skills necessary to further their education and to function successfully with an international understanding and focus in the modern world
- Offering a curriculum that encourages the wider educational development of each child
- Encouraging children of all abilities to set goals which reflect the utmost of their capabilities
- Learning as a continuing process that fosters thinking and doing, exploration and experimentation, to help young people to adapt to an ever-changing environment and lead productive lives
- Maintaining regular and effective communication between parents and the school as well as parents being active partners in the learning process
- Instilling in students an appreciation of the outdoors and an awareness of the global environment and the need to conserve it as guardians of our collective future
- Nurturing tolerance, awareness and respect for oneself, others and property
- Fostering within children a desire to take responsibility for self-motivation, self-direction, self-discipline and a positive self-image
- Developing leadership skills rooted in kindness and justice, practiced individually and collectively in various leadership positions of consequence in the school
- Teaching children the values of democracy and the importance of active participation in democracy where freedom of thought and speech are encouraged and appropriate forums are in place for responsible self-expression
- Sensitising children to appreciate the richness of the spiritual and cultural experiences of life
- Preparing children for responsible lives through the expectation of service to others
- Promoting international understanding through exposure to different cultures and beliefs and through teaching children to appreciate, value and respect all cultures, religions and languages
- Encouraging children to learn to see themselves as committed and responsible global citizens, who look beyond gender, class, race, nationality and culture to understand human nature
- Building self-esteem through adventure and meeting challenges, working both individually and within groups, to promote personal growth and self-discovery leading to the child's realisation that they can be so much more than they might have imagined

*Adopted: September 1997*

*Reviewed and amended: 2005, 2009, 2012, 2016*

# BROOKHOUSE SECONDARY SCHOOL

## AS AND A2 LEVEL OPTIONS CHOICES BOOKLET

FOR THOSE ATTENDING THE CHOICES EVENING

AT THE SCHOOL

### **Contents:**

1. Introduction
2. Some General Information about AS Courses
3. A Guide to Degree Course Requirements
4. Art & Design
5. Biology
6. Business Studies
7. Chemistry
8. Computer Science
9. Drama
10. Economics
11. English Language
12. English Literature
13. French
14. Geography
15. German
16. History
17. Law
18. Mathematics
19. Music
20. Psychology
21. Physics
22. Sociology
23. Spanish
24. BTEC

## **ACADEMIC STAFF AT BROOKHOUSE SECONDARY SCHOOL**

### **Director**

**Mr. John O'Connor**, BA Hons (Literature) University of Western Australia, Dip Ed.

### **Head of Secondary**

**Mrs Lucy Ayodo**, M Ed Kenyatta University, MBA Baraton, Dip PR

### **Heads of Sixth Form and Careers**

**Mr. Otieno Milafu**, BA, MA (Geography) University of Nairobi, PGDE Daystar University

**Mrs. Sabina Okech**, B Ed Hons Kenyatta University

**Mr. Moses Lutta**, B Ed Kenyatta, M Phil Kenyatta

### **Heads of Year**

**Mrs. Anpurna Sanghani**, B Sc Hons University of North London, PGCE Sunderland

**Ms. Kelly Taberham**, M A Hons (English) Aberdeen, PGCE Nottingham

### **Heads of Subject**

**Mr. Fredrick Ajode**, B A Hons Kenyatta University

**Mrs. Tajinder Sehmi**, B Sc Hons Southampton

**Mr. Moses Nyoro**, B Ed Hons Kenyatta MBA University of Nairobi

**Mr. Mohamed Sheikh**, B Sc Hons North East London Polytechnic

**Mr. William Gichohi**, B Sc JKUAT, Dip IMIS, PGDE

**Mrs. Sabina Okech**, B Ed Hons Kenyatta University

**Mr. Wanjohi Mwai**, B Ed University of Nairobi

**Ms. Ellie Spray**, B A Hons, M Sc Wales, QTS Nottingham Trent

**Mrs. Dorothy Kyalo**, B Ed Hons Kenyatta University

**Mr. Andrew Kimwele**, B Ed Hons Kenyatta University

**Ms. Rachel Flanagan**, B A Hons Durham, PGCE York

**Ms. Josephine Kariuki**, B Ed UEA Baraton

**Mr. Graham Omasire**, LLB (India), Dip Law (KSL)

**Mr. Martin Bingwa**, B Ed, M Sc Kenyatta University, Dip PR

**Mr. Jeremy Franklin**, B A Music Nottingham, PGCE London, QTS

**Ms. Susan Bantu**, M Ed (Counselling) USA, M A Ohio, B A University of Nairobi

**Mr. Evans Ombui**, B Ed Kenyatta University

**Mrs. Carmen Ogwen**, B A, M A (Economics) University of Bucharest

**Mr. Kennedy Mwaniki**, B Ed Havana, Diploma in Spanish Havana, Cuba

**Mrs. Sobia Mughal**, B A Hons, BTEC Diploma, Dip Child Psychology

**Mr. Raymond Kiptum**, B Bus Admin Makerere University

**Mr. Antony Leedale**, B Music Hons Newcastle, B A Hons Leeds Met, PGCE

**Art & Design**

**Biology**

**Business Studies**

**Chemistry**

**Computing**

**Drama**

**Economics**

**English and Literature**

**French**

**Geography**

**German**

**History**

**Law**

**Mathematics**

**Music**

**Psychology**

**Physics**

**Sociology**

**Spanish**

**BTEC Art**

**BTEC Enterprise**

**BTEC Music**

## **ADVANCED SUBSIDIARY COURSES (AS)**

You will be required to choose four subjects for study as AS level in Year 12.

At the end of Year 12 you will sit AS examinations in all four subjects, unless recommended to do otherwise by the relevant Head of Department. However, as you can only carry three subjects forward for study in Year 13, the subject you choose to drop must be sat as an AS level.

At the end of Year 13 you will sit examinations in these three subjects at A2 level. The combination of your performance at AS and A2 level determines your overall A-level grade.

The subject you choose not to carry forward to Year 13 will remain as an AS grade only. Some, but not all university courses require a pass grade in one subject at AS level in addition to three subjects at A-level.

All of your A-level grades plus your AS grade(s) will gain you points which count towards entry to university courses. Different courses will require a certain number of points for entry. The University Colleges Admissions Service (UCAS) has issued values for the points gained for various grades at A-level. The following are the values:

<b><u>GRADE</u></b>	<b><u>POINTS VALUE</u></b>
A*	140
A	120
B	100
C	80
D	60
E	40

**Note:** The value of an AS grade is half the value of an equivalent A-level grade.

John O'Connor  
Director

## **CHOOSING YOUR AS LEVEL SUBJECTS**

You will need to choose four subjects for study in Year 12. Ultimately, the decision on which subjects you choose will be yours. However, before you do so, you would be wise to seek advice from your parents, your teachers and your friends, especially any who may be in Year 12 and who have gone through the process before.

If you are uncertain as to which subjects are required in order to follow a particular career, refer to the section of this booklet which immediately follows.

Remember that the aim of the AS system is to provide greater breadth to your studies by introducing an extra subject in Year 12. There is no need to restrict yourself to all science subjects or all non-science subjects at this stage, unless, of course, you are certain that this is what you want.

If you think that you want to choose a science based course (Engineering, Medicine, Pharmacy, etc), but you are not sure that it is really what you want to do, you could choose two or three sciences and one or two others from different disciplines. This will afford you some flexibility when you become more certain.

By carefully studying the section that follows, you will see that some courses of study at university are very specific as to subjects needed at AS/A2 level whereas others are more flexible in terms of subject requirements. For example, medicine and pharmacy require chemistry and one other science throughout AS and A2. Architecture requires mathematics throughout. Contrast these subject specific courses with archaeology, which requires no specific subject at AS/A2 level.

Finally, remember that at the end of the day, A-level is really a points scoring process. You are endeavouring to gain as many points as you can to get into the course you wish to study at university.

John O'Connor  
Director

## A SHORT GUIDE TO A LEVEL REQUIREMENTS FOR DEGREE COURSES

This document is a guide only. For more detailed information refer to the relevant literature, such as the official UCAS guide and prospectus. It is worth contacting a particular university to resolve doubts as individual universities vary in their requirements.

**Abbreviations:** A = Art, B = Biology, C = Chemistry, D = Design, Dr = Drama, E = English Literature, Ec = Economics, FM = Further Mathematics, G = Geography, Gk = Greek, Gn = German, H = History, HA = History of Art, It = Italian, L = Latin, M = Mathematics, P = Physics, Po = Politics, Sp = Spanish.

### SCIENTIFIC

**Agriculture, Horticulture, Forestry:** ideally two sciences including C.

**Food Science:** Often C and another science; for management / marketing options, the science requirements are less, although one science is useful.

**Biology:** B + C or B + a science /M.

**Botany:** B needed. C preferred.

**Genetics / Biotechnology:** B + C.

**Microbiology:** At least B + C, some want B+C+M/P

**Zoology:** B+ a science / M (preferably C).

**Chemistry:** C + M or P (possible C only).

**Computer Science:** M demanded sometimes, otherwise M and/or Sc preferred.

**Environmental Science:** 2 sciences (M P C G B).

**Geology:** M + P recommended

**Mathematics:** M (possibly FM)

**Physics:** M + P

**Statistics:** M

**Anatomy / Physiology:** 2 sciences (C + B recommended).

**Psychology:** two types of degree. B.Sc. like one or two sciences B.A. (Social Science) – no special subjects.

### MEDICAL

**Dentistry:** at least 2 sciences / M including C.

**Health Science:** variable, but one or two sciences (preferably B and/or C) advisable for Nursing, Biomedical Sciences, Speech Therapy, Physiotherapy, Occupational Therapy, Nutrition.

**Radiography:** P useful

**Medicine:** at least 2 sciences/M, including C and preferably B.

**Optics:** one or two sciences.

**Pharmacy/Pharmacology:** C required + preferably two of B P M.

**Veterinary Science:** C + B + M.

### ENGINEERING AND THE BUILT ENVIRONMENT

**Engineering:** usually M + P. M is required more than P some flexibility.

Electronic + mechanical : nearly always require M + P. C for chemical engineering.

**Technology:** Usually M and/or P, with C for materials/Metallurgy.

**Architecture:** generally M not required although M (or P) a good subject to take.

**Building/Construction:** M/science require or preferred.

**Surveying:** M sometimes asked for quantity/construction surveying.

**Planning/Urban Studies:** subjects not specified.

**Design/Art:** a relevant Art/Design A level.



## ARTS

**Archaeology:** not specified, although a science + classical language can be useful.

**Design/Art:** most students go on to do a one year Foundation Course prior to a degree in Art/Design areas. The basic requirement is a good portfolio of work, although in general a student would be expected to study A-level Art and Design.

**History of Art:** HA useful but not required. Language useful.

**Drama:** Dr. is an obvious lead in English Lit. required in some places. Language or H like at some.

**Education:** no specific subject; PGCEs require relevant degree subjects.

**History/Economic History:** some places requires H, some do not. H much preferred but not totally necessary.

**Music:** music generally required, although a few courses do not require it.

**Philosophy:** no specific requirements.

**Theology:** no specific subjects. E useful.

**Languages:** generally, but not always, the relevant language is required at 'A' level, for F Gn Sp It. Two languages given more scope.

**African/Oriental/Asian Studies:** many places do not require a language A level, but SOAS does so language advised.

**Celtic Studies:** Welsh or Irish sometimes asked for.

**Classics:** Latin wants L, Greek wants Gk. Some classics courses ask for both, some classical studies/historical do not demand either.

**English:** English Lit. Foreign language is useful but not essential. E lang/lit often acceptable.

**European Studies:** a modern language is required at many places, although not al.

**American Studies:** E or H useful, occasionally required.

**Russian:** often designed to accommodate beginners. Some types of course are designed for those who took A level.

**Linguistics:** modern language often useful and sometimes required.

## SOCIAL SCIENCES

**Business/Management:** M is useful, but not required except for some Management Science courses. Modern language required for European/International Marketing, BS/Ec gives useful – background, but not required.

**Economics:** M is required for certain types of course (econometrics, economic statistics). Ec/BS gives useful background but is not required.

**Accountancy/Finance:** M is required for financial analysis / actuarial science.

**Geography:** G is not always required but it is preferred. Two types of course; (Science or Arts/Social Science). B.Sc. like a science.

**Law:** no specified subjects, although European Law etc requires a language. E often useful.

**Political / International Relations:** Po useful but required. Other useful subjects E H G Ec Language.

**Psychology:** two types of degree. B.Sc. like one or two sciences B. A. (Social Science) – no special subjects E useful.

**Information / Media / Library / Communication Studies:** no specific subjects. E often useful.

**Sociology / Social Studies / Anthropology:** a wide range of subject combinations acceptable. E H G Ec Language useful.

# ART AND DESIGN

## Why study... Art at AS and A Level

Studying Art at AS and A Level can help you develop:

- The ability to perceive, understand and express concepts and feelings
- The ability to record from direct observation and personal experience
- The ability to communicate by using appropriate materials and techniques in a disciplined way
- Skills in experimentation, innovation and the use of intuition and imagination
- Confidence, initiative and a sense of adventure and excitement
- Relevant working vocabulary

The best foundation for success at AS and A Level art is a good grade at IGCSE. It is not an easy option and you must be prepared to work hard at developing your abilities. You should understand the basic elements of Art – colour, tone, form etc. And also have some understanding of the place of art and craft in the world. Above all you should have an interest in creating and understanding art and the determination to develop that interest.

AS students take two Components:

### **Component 1                  Controlled Test                  30%**

There will be one question paper set by the board which will cover the requirements of the syllabus. The candidate will choose ONE question from which to make studies in a suitable medium, process or techniques. The candidate will be given at least three weeks in order to prepare and develop their ideas and then 15 hours to complete the controlled test. This work is marked by the C.I.E.

### **Component 2                  Coursework                  20%**

Candidates must submit: one coursework project and up to four sheets of supporting work mounted on A1 sheets. The intention of this Component is to allow candidates to pursue a field of study in research, development and realisation in depth. However, unlike Component 3, more emphasis will be placed on the development of ideas, experimentation and the use of processes rather than the resolution of the final coursework project piece itself.

**The A2 course has two more components to complete:**

### **Component 3                  Coursework                  30%**

Candidates must submit one coursework project plus a folder of supporting work. Up to ten A1 sheets and a sketchbook. It is the intention of this Component to allow the student to pursue an area of study in research, development and realisation in depth. Unlike Component 2, as much emphasis will be placed on the resolution of the final piece as on the development of ideas and the use of processes

### **Component 4                  Related Study                  20%**

Candidates will produce a detailed study of any aspect of the visual arts that relates to their work for Component 2 or Component 3: Coursework. First-hand experience of the work should form at least part of the study. The presentation of the study may take any format but should be a balance of visual and written analysis and should not exceed 3500 words.

**Art AS / A Level is useful in the following careers:**

There are many careers in Art and Design. Most require further study in Art school, further education college or university. You may wish to pursue a career in such fields as advertising, marketing and design, architecture, publishing, textiles, ceramics, interior design, industrial design, fashion, film and video to name a few. The study of Art can also help you develop transferable skills, you can take into any career or job.

Success in this subject requires determination however whichever future path you choose it can be a rewarding beginning.

How is Art and Design examined:

<b>Component 1</b> <b>Controlled Test</b> <b>30%</b> <b>(Externally assessed by CIE)</b>	<b>Component 2</b> <b>Coursework</b> <b>20%</b> <b>( Internally assessed )</b>
<b>Component 3</b> <b>Coursework</b> <b>30%</b> <b>(Internally assessed )</b>	<b>Component 4</b> <b><i>Related Study</i></b> <b>20%</b> <b>(Externally assessed by CIE)</b>

Mr F Ajode  
Mr A Ashtiba  
**Art Department**

# BIOLOGY

## Why study ... BIOLOGY at AS and A Level?

The 'A' level Biology course pursues the study of life and the activities of living organisms. An exciting and fascinating range of topics is provided to help develop your understanding of structure and function of organisms and their interactions. The course aims at expanding your knowledge of biological concepts and principals as well as developing your observational, analytical, investigative and experimental skills. You will be expected to design and execute experiments in the practical tests. At the end of the course you will have acquired essential problem solving, communication and ICT skills as well as an appreciation of the economic significance of Biology and the ethical issues it introduces.

## Course Content

The CIE Biology syllabus has been constructed around a common Core of 16 sections and 5 sections of Applications of Biology [to be covered at the A2 level only]:

### AS candidates: (Year 12)

In Year 12 Candidates study **eleven** AS Biology topics.

1. Cell Structure	7. Transport in Plants
2. Biological Molecules	8. Transport in Mammals
3. Enzymes	9. Gas Exchange and Smoking
4. Cell membranes and Transport	10. Infectious Diseases
5. The mitotic cell cycle	11. Immunity
6. Nucleic Acids and Protein synthesis	

### A2 Candidates (Year 13)

In Year 13 Candidates study the following A2 Biology topics:

1. Energy and Respiration	6. Selection and Evolution
2. Photosynthesis	7. Biodiversity, Classification and Conservation
3. Homeostasis	8. Genetic Technology
4. Control and Coordination	
5. Inherited change	

## Course Requirements

CIE requires that students have a minimum grade C at IGCSE to take AS/A-level Biology. We strongly recommend that the student also takes IGCSE Chemistry or Physics to take Biology. It is recommended that one obtains grades A/B to achieve a high grade at A-level. The highest grade is an A\* at A level.

### The following careers usually require Biology at A Level.

Marine Biology/Oceanography	Biomedical Sciences
Dentistry/Medicine	Dietetics
Physiotherapy/Osteopathy	Industrial Research
Food Science /Food Technology	Forensic Science/Pathology
Pharmacy / Pharmacology	Podiatry/Chiropody
Optometry/Ophthalmology	Biotechnology/Bioinformatics
Environmental Law	Microbiology and Virology
Environmental Science	Veterinary Medicine
Forestry/Agriculture	Landscaping/Horticulture
Medical Engineering	Genetic Engineering/Technology
Animal Science /Animal Production	Neuro-science

### How is BIOLOGY examined at AS and A level?

Paper	Type of paper	Duration	Marks	Weighting	
				AS Level	A Level
Paper 1	AS Multiple Choice	1 hr	40	31 %	15.5 %
Paper 2	AS Structured Questions	1 hr 15 min	60	46 %	23 %
Paper 3	AS Advanced Practical Skills	2 hr	40	23 %	11.5 %
Paper 4	A2 Structured Questions	2 hr	100		38.5 %
Paper 5	A2 Planning, Analysis and Evaluation	1 hr 15 min	30		11.5 %

Students may opt to take Biology at AS Level only and obtain an **AS level certificate**. The full **A-level certificate** is awarded on the basis of 50% AS marks and 50% A2 marks. Students cannot study A2 without completing AS. Some students may opt to take all five papers at the end of Year 13.

A **compensatory AS level certificate** is awarded to students who fail to get A level but meet the requirements for As level in Biology.

Mrs T Sehmi  
Mr E Mulindi  
Mr J Okaka  
Ms E Shabouk  
**Biology Department**

# BUSINESS STUDIES

## Why study ... BUSINESS STUDIES at 'AS' and 'A' level?

### Course content

Students will be encouraged to develop a critical understanding of organizations and the markets they serve. They will also be made aware of business behaviour from different perspectives eg stakeholders, the government etc.

The topics taught include

- ❖ Business in its environment
- ❖ People in organizations
- ❖ Marketing
- ❖ Operations and project management
- ❖ Finance and accounting
- ❖ Strategic management

Each of the above topics is taught at a core level for the AS course and at extended level to meet A2 requirements.

Careers in which the Management of Business AS or A level is useful include:

- ❖ Business administration
- ❖ Accounting
- ❖ Finance
- ❖ Marketing
- ❖ Management science
- ❖ Media studies
- ❖ Computer studies
- ❖ Law
- ❖ International Relations
- ❖ Politics

**How is BUSINESS STUDIES examined at A and AS level?**

**AS Level**

Paper 1	1 ¼ Hours	40%	Section A	Short answer compulsory questions on whole syllabus and one essay
Paper 2	1 ½ Hours	60%	2 Case studies	

**A2 Level**

Paper 3	3 Hours	100%	Case study + essay	
---------	---------	------	--------------------	--

Mr M Nyoro  
Mr J Mwangi  
**Business Studies Department**

# CHEMISTRY

## Why study ... CHEMISTRY at AS or A level?

The table shows which parts of the syllabus contain AS Level material and which contain additional material that is examined only in the full A-Level.

Section	Topic	AS Level	A Level
<b>Physical chemistry</b>	1 Atoms, molecules and stoichiometry	✓	
	2 Atomic structure	✓	✓
	3 Chemical bonding	✓	
	4 States of matter	✓	
	5 Chemical energetics	✓	✓
	6 Electrochemistry	✓	✓
	7 Equilibria	✓	✓
	8 Reaction kinetics	✓	✓
<b>Inorganic chemistry</b>	9 The Periodic Table: chemical periodicity	✓	
	10 Group 2	✓	✓
	11 Group 17	✓	
	12 An introduction to the chemistry of transition elements		✓
	13 Nitrogen and sulfur	✓	
<b>Organic chemistry and analysis</b>	14 An introduction to organic chemistry	✓	✓
	15 Hydrocarbons	✓	✓
	16 Halogen derivatives	✓	
	17 Hydroxy compounds	✓	✓
	18 Carbonyl compounds	✓	
	19 Carboxylic acids and derivatives	✓	✓
	20 Nitrogen compounds		✓
	21 Polymerisation		✓
	22 Analytical techniques	✓	✓
	23 Organic synthesis		✓

### Some careers which require chemistry:

- |  |                       |                               |
|--|-----------------------|-------------------------------|
| ❖ Agriculture  | Forestry/Horticulture | Chiropody/podiatry            |
| ❖ Dentistry  | Medicine              | Nursing Dietetics             |
| ❖ Engineering – all branches including biomedical and chemical |                       | Biochemistry                  |
| ❖ Environmental health science                                 | Food science          | Ecology                       |
| ❖ Forensic science   | Osteopathy            | Paper technology/conservation |
| ❖ Pharmacy   | Physiotherapy         | Veterinary Sciences           |



**How is CHEMISTRY examined at AS and A level?**

- Candidates for Advanced Subsidiary (AS) certification take Papers 1, 2 and 3 (either Advanced Practical Skills 1 or Advanced Practical Skills 2) in a single examination series.
- Candidates who, having received AS certification, wish to continue their studies to the full Advanced Level qualification may carry their AS marks forward and take Papers 4 and 5 in the examination series in which they require certification.
- Candidates taking the full Advanced Level qualification at the end of the course take all five papers in a single examination series.

Candidates may only enter for the papers in the combinations indicated above.

Candidates may not enter for single papers either on the first occasion or for resit purposes.

Component	Weighting	
	AS level	A level
<b>Paper 1 Multiple Choice</b> <span style="float: right;"><b>1 hour</b></span> This paper consists of 40 multiple choice questions, 30 of the direct choice type and 10 of the multiple completion type, all with four options. All questions will be based on the AS Level syllabus content. Candidates will answer all questions. Candidates will answer on an answer sheet. <span style="float: right;"><b>[40 marks]</b></span>	31%	15.5%
<b>Paper 2 AS level Structured Questions</b> <span style="float: right;"><b>1 hour 15 minutes</b></span> This paper consists of a variable number of questions of variable mark value. All questions will be based on the AS Level syllabus content. Candidates will answer all questions. Candidates will answer on the question paper. <span style="float: right;"><b>[60 marks]</b></span>	46%	23%
<b>Paper 3 Advanced Practical Skills</b> <span style="float: right;"><b>2 hours</b></span> This paper requires candidates to carry out practical work in timed conditions. Candidates will be expected to collect, record and analyse data so that they can answer questions related to the activity. The paper will consist of two or three experiments drawn from different areas of chemistry. Candidates will answer all questions. Candidates will answer on the question paper. <span style="float: right;"><b>[40 marks]</b></span>	23%	11.5%
<b>Paper 4 A level Structured Questions</b> <span style="float: right;"><b>2 hours</b></span> This paper consists of a variable number of free response style questions of variable mark value. All questions will be based on the A Level syllabus but may require knowledge of material first encountered in the AS Level syllabus. Candidates will answer all questions. Candidates will answer on the question paper. <span style="float: right;"><b>[100 marks]</b></span>	-	38.5%
<b>Paper 5 Planning, Analysis and Evaluation</b> <span style="float: right;"><b>1 hour 15 minutes</b></span> This paper consists of a variable number of questions of variable mark value based on the practical skills of planning, analysis and evaluation. The context of the questions may be outside the syllabus content, but candidates will be assessed on their practical skills of planning, analysis and evaluation rather than their knowledge of theory. Candidates will answer all questions. Candidates will answer on the question paper. <span style="float: right;"><b>[30 marks]</b></span>	-	11.5%

# COMPUTER SCIENCE

## Introduction

Computer science is the study of the foundational principles and practices of computation and computational thinking and their application in the design and development of computer systems. The means by which computational thinking is expressed is by writing computer code. Therefore, the syllabus will focus more on the development of computational thinking which involves programming using high level languages.

## Why study Computer Science at AS or A Level?

Computer Science is widely accepted by universities and employers as proof of essential knowledge and ability. The syllabus provides a suitable foundation for the study of computer science or related courses at university level and is equally suitable for candidates intending to pursue careers or further study in computing, hardware engineering, software engineering/development, ICT and other specialist aspects of computer science.

## The aims of the curriculum are to:

- to develop computational thinking
- to acquire the skills required to develop computer-based solutions to problems.
- to develop an understanding that every computer system is made up of subsystems, which in turn consist of further subsystems
- to develop an understanding of the component parts of computer systems and how they interrelate, including software, data, hardware, communications and people

## Assessment

The two Assessment Objectives in Computer Science are:

- A Computational Skills
- B Knowledge and understanding

## Advanced Subsidiary Level

Paper	Title	Duration	Weight
1	Theory Fundamentals	1hr 30 mins	50%
2	Fundamental Problem-solving and Programming Skills	2 hrs	50%

## Advanced Level

Paper	Title	Duration	Weight
3	Advanced Theory	1 hr 30 mins	50%
4	Further Problem-solving and Programming Skills	2 hrs	50%

## Careers

Computer Science is dynamic; more careers are being created in the field every year. The main career opportunities available in the field of Computer Science include;

- IT Systems engineer
- Software development engineer
- Hardware engineer
- Applications developer
- Programmer analyst
- Wireless and communications engineer
- Network administrator
- Software engineer
- Systems analyst
- Computer operations engineer
- Head of computing/Computer science
- E-Commerce specialist
- Internet solutions developer
- Web Master
- Graphics designer
- Information systems manager
- Programmer
- Tele-communications engineer
- Database administrator
- Real time systems engineer
- Computer science Consultant
- ICT manager

among others

### Qualifications before taking Computer Science

Students who wish to take Computer Science in AS and A Level should be prepared to work hard consistently in both theory and computational skills. The subject covers a wide range of computing and programming concepts. It is recommended that such students should have attained a **grade C** or better in Mathematics at IGCSE. In addition students with grade C and above in either Computer Science or Computer Studies or ICT at IGCSE / GCSE level have an added advantage.

Mr W Gichohi

Mr T Obunga

**Computer Science Department**

# AS AND A2 DRAMA AND THEATRE STUDIES

## Why study this subject?

- Drama and Theatre Studies course will enhance your interest in theatre.
- You will be encouraged to participate and develop practical skills, both within a group and individually.
- You will extend your knowledge and understanding of theatre and you will be encouraged to develop a critical and sensitive response to the complexities of theatre.
- Your personal development, both as a student and artiste is integral to this course.

## Entry requirements:

A pass in English or Literature, plus passes in Humanities or Sciences is a requirement as well as a proven interest in Drama and commitment to practical work. Prior study of Drama would be an added advantage.

## How will I be assessed and examined?

This course is offered at both AS and A2 levels.

The AS course consists of two units:

### Unit 1.

#### Live Theatre Production and Prescribed Play

60% of AS, 30% of A Level

This unit is divided into two sections. Each section is taken as a separate paper with a time allowance of 45 minutes.

**Section A** requires candidates' response to various aspects of live theatre seen during the course.

**Section B** requires candidates to answer **one** question from a choice of two questions. Questions are focused on the interpretation of the play from a performance perspective. All elements of the unit are externally assessed and forms 60% of AS.

## **Unit 2.**

### **Presentation of an Extract from a play.**

This unit is internally assessed and externally moderated.

Candidates are required to work in groups to present for an audience an extract from a published play of their choice. This unit forms 40% of AS.

You may continue your A2 course which consists of a further two units.

## **Unit 3.**

### **Further Prescribed Plays including Pre-Twentieth Century**

Candidates are required to answer two questions, one from each of two different sets of plays. One play is to be set from Pre-Twentieth Century and one from Contemporary Drama. This unit forms 30% of A Level.

## **Unit 4.**

### **Presentation of Devised Drama.**

This unit is internally assessed and externally moderated.

Candidates are required to work in groups to present for an audience a devised drama, performed in a theatrical style of their choice. This unit forms 20% of A Level.

### **Future courses and possible careers:**

Single and combined honours degrees at university, Performing Arts degree courses, Drama school, careers in theatre, drama teaching and media related opportunities, among others.

Mrs S Okech

Ms E Spray

Mr P Longden

**Drama Department**

# ECONOMICS

## Why choose Cambridge International AS and A Level

### Economics?

Success in Cambridge International AS Level and A Level Economics is accepted by universities and employers as proof of essential knowledge and ability. Successful Cambridge International AS and A Level candidates gain lifelong skills, including:

- the ability to explain and analyse economic issues and arguments
- the ability to evaluate economic information and organise, present and communicate ideas and judgements clearly
- a sound foundation of economic ideas including an introduction to the price system and government intervention, international trade and exchange rates, the measurement of employment and inflation and the causes and consequences of inflation.

#### *Prior learning*

**Candidates beginning this course are not expected to have studied Economics previously.**

At AS level, the course includes seven main components. They are:

- ❖ Basic Economic ideas
- ❖ The Price system
- ❖ Government Intervention in the price system
- ❖ International Trade
- ❖ Theory and measurement in the macro-economy
- ❖ Macro-economic problems
- ❖ Macro-economic policies

#### **The A2 course includes**

- ❖ Basic economic ideas
- ❖ The Price System and the Theory of the Firm
- ❖ Government Intervention in the Price System
- ❖ Measurement in the macro-economy
- ❖ Macroeconomic Problems
- ❖ Macroeconomic Policies

## Which careers require an A level in Economics?

Economics would prove to be very useful in the following career areas:

- ❖ Law
- ❖ Banking
- ❖ Finance
- ❖ Commerce
- ❖ Business administration
- ❖ Diplomacy
- ❖ Government & NGOs
- ❖ Journalism
- ❖ Environmental management

## How is ECONOMICS examined at AS and A level?

Paper	Weighting	
	AS Level	A Level
<b>Paper 1</b> 30 multiple choice questions (Core) <b>1 hour</b>	40%	20%
<b>Paper 2</b> (a) Data response (Core) 1 question (b) Structured essay (Core) 1 from a choice of 3 <b>1 hour 30 mins</b>	30%	15%
<b>Paper 3</b> 30 multiple choice questions (Supplement) <b>1 hour</b>		15%
<b>Paper 4</b> (a) Data response (Supplement) 1 question (b) Essays (Supplement) 2 from a choice of 6 <b>2 hours 15 mins</b>		10%
		25%

Papers 1 and 2 are for both AS Level and A Level candidates. Papers 3 and 4 test the topics in the Supplement, but also require a knowledge and understanding of the topics in the Core.

Mr W Mwai  
Mrs C Ogweno  
Mr M Nyoro  
**Economics Department**

# AS/ A2 ENGLISH LANGUAGE

***Instilling the analytical reading and varied writing skills necessary for all courses that use the English Language.***

The aims of this one (1) year or two (2) year course are to build upon communication skills already established at IGCSE. The specific skills include the development of critical and informed responses to a variety of writing forms and styles and the interdependent skills of reading, analysis and communication. It is also a creative course, encouraging imaginative writing.

To achieve these aims students are introduced to a myriad of writing styles: novels, plays, poetry, information texts, newspapers, advertising, pamphlets, etc. They are also given the tools with which to examine the different forms of writing. Students will understand the power of language and appreciate how important effective communication is.

Students will be encouraged to develop their writing skills to encompass a wide range of styles and purposes that are likely to be useful in later life. In addition they will research and participate in many discussions of local and global interest, followed by presenting their views in discursive or argumentative forms. The A2 course gives students the chance to explore how language helps shape individuals and society, as well as to consolidate the skills learnt at AS.

The AS examination consists of two (2) papers each of two (2) hours.

## **Paper 1 Passages for Comment.**

They will be required to answer two questions; each one will involve a commentary on the use of language in the passage followed by a directed writing task based on the passage.

## **Paper 2 Composition.**

Students will be asked to answer 2 questions. They will be required to write one narrative/descriptive piece as well as a discursive/argumentative piece (each of about 600 – 900 words).

***Effective communication is the key to success.  
It is a powerful tool in all walks of life.***

Ms E Spray  
Ms K Taberham  
Mrs R Mbogori  
Mrs B Gaya-Teyie  
Ms B McConnell  
**English Department**



# AS/A2 LITERATURE IN ENGLISH

***If you are considering degrees in Law, Politics, International Relations, or any other analytical, essay based course then Literature is for you.***

The aim of this one (1) year or two (2) year course is to encourage an appreciation of texts from different periods and cultures. This leads to enhanced independent reading and analytical skills, which in turn creates confident adults with effective and appropriate communication skills.

At AS level students study poetry, prose and drama, extending the skills already developed at IGCSE Literature. What better way is there to understand great times and events of the past, be involved in contemporary ideas of today or speculate on possible futures?

The AS texts for examination in 2016 span continents and centuries with authors from William Shakespeare to Alan Ayckbourn and from Wilfred Owen to Jhumpa Lahiri offering an exciting array of characters, settings and plots. The AS examination consists of two (2) papers, each of two (2) hours duration.

## **Paper 3 Poetry and Prose**

A passage-based and an essay type question are set on each text. Students will need to exhibit a clear understanding and an informed independent opinion of the text. They will also be expected to demonstrate effective understanding of narrative methods as well as an understanding of the writers' choice of form, structure and language that shapes meaning.

## **Paper 4 Drama**

A passage-based and an essay type question are set on each text. Students will need to exhibit all of the skills necessary for Paper 3 as well as an appreciation of the dramatic qualities of the text.

***Effective communication is the key to success.  
It is a powerful tool in all walks of life.***

Ms E Spray  
Ms K Taberham  
Mrs S Madahana  
Mrs B Gaya-Teyie  
**English Department**

# FRENCH

## Why Study French at AS or A Level?

Studying French at an advanced level can be a stimulating experience as the course aims to develop the student's ability to:

- a) Develop and build on the skills acquired at GCSE.
- b) Enhance employment prospects.
- c) Undertake foreign travel.
- d) Develop insights into another culture and society.
- e) Acquire a sound basis for further study at A2, at university, for work and leisure.

## Course content

The study of French at 'A' and AS Level is based around the four topic areas below:

- Media
- Popular culture
- Healthy living / lifestyle
- Family relationships

A2 students will, in addition, study the following:

- Environment
- Multicultural society
- Contemporary social issues

Plus any **two** cultural topics chosen from among the following;

- A target language –speaking region or community.
- A period of 20th century history from a target language speaking country or community.
- An author from a target language speaking country or community.
- A dramatist or poet from a target language speaking country or community.
- A director, architect, musician or painter from a target language speaking country or community.

## Careers in which French is useful include:

- Journalism, Aviation, International Business and Market research organizations.
- The Diplomatic service
- International Law and Finance, Library and Information services
- Foreign language teaching, Interpretation and Translation
- International organisations
- Hospitality Industry i.e. Hotel and Resort Management and Travel & Tourism
- Language and speech therapy (must be combined with a science)

## How is French examined at A and AS level?

The course will be assessed by examination only and will be externally assessed by AQA

Title of paper		Tasks	% of AS	% of A2	Time
<b>AS Unit 1</b>	Listening, Reading and Writing	<u>Listening</u> : 2-4 items requiring short language responses. <u>Reading and Writing</u> section: 2-4 items requiring short language responses and a translation task. <u>Writing</u> : One 200 word piece of writing to one question from a choice of three.	70 % of total AS marks	35 % of A2 Marks	2 hours
<b>Unit 2</b>	Speaking	- <u>Part 1</u> : discussion based on a stimulus card.  - <u>Part 2</u> : conversation (10 mins)	30 % of AS	15 % of A2	35 mins including 20 mins preparation time.
<b>2</b>					
<b>Unit 3</b>	Listening, Reading and Writing	<u>Listening</u> : 3-5 items requiring short language responses.  <u>Reading and Writing</u> section: 2-4 items requiring short language responses and a translation task.  <u>Writing</u> : One 250 word piece of writing to one question from a choice of 2 based on the five cultural topics.		35% of the total A-level marks	2 hrs 30 mins.
<b>Unit 4</b>	Speaking	Part 1: discussion based on a stimulus card. Part 2: conversation (10 mins)		15% of the total A-level marks	35 mins including 20 mins preparation time.

An important advantage of the AQA Examination board is that there is no restriction on the number of times a unit can be attempted prior to a student's claiming certification for the qualification. *The best available result for each contributing unit* will count towards the final grade. Results of units will be held in AQA's unit bank for as many years as this specification remains available.

The A2 examination tests the same linguistic skills as at AS but at a higher level- in more demanding and open-ended tasks and using wider language registers.

Mrs D Kyalo  
Mr J Wambeo  
**French Department**

# GEOGRAPHY

## Why study ... GEOGRAPHY at A or AS levels?

The study of geography helps one to develop an awareness of contemporary human and environmental problems. The subject is about the way people are affected by their environment, and is therefore of great general interest apart from being appropriate for specific careers.

At AS Level students study the following core units:

- 1 Physical Core
  - (i) Hydrology and Fluvial Geomorphology – Involves river study fieldwork
  - (ii) Atmosphere and Weather
  - (iii) Rocks and Weathering
  
- 2 Human Core
  - (i) Population Change
  - (ii) Settlement Dynamics

During the second year of the course, students study the following upto A2 level.

Advanced – Physical Options:-

- ❖ Tropical Environments
- ❖ Coastal Environments – wave processes and landforms field study in Mombasa
- ❖ Hazardous Environments
- ❖ Arid and Semi-arid Environments

Advanced - Human options

- ❖ Production, Location and Change - Agriculture
- ❖ Environmental Management
- ❖ Global Interdependence – International Tourism

## **Careers in which Geography may be useful include:**

- ❖ Agriculture                  Aviation
- ❖ Ecology                      Environmental science/conservation
- ❖ Estate management Geology
- ❖ Journalism                  Law
- ❖ Meteorology                Outdoor pursuits

**Careers for which Geography is a recommended subject are:**

- ❖ Hotel Management              Tour Operations
- ❖ Hospitality                      Teaching Geography
- ❖ Leisure management          Cartography / Map making
- ❖ Tour planning                  Environmental work
- ❖ Transport management      Geology
- ❖ Travel agency

**AS Level**

Paper 1	3 Hours	100% (50%)	Section A:	<b>Five compulsory questions</b> based on physical and human core topics
			Section B:	One question based on physical core
			Section C:	One question based on human core section

**A2 Level**

Paper 2 & 3	3Hours	50%	The two papers are taken during the same session with a 15 min break between the papers	
			Paper 2:	Two questions on the physical options
			Paper 3:	Two questions on advanced human options

Mr A Kimwele  
Mr O Milafu  
Mr J Muturi  
**Geography Department**

# GERMAN

## Why Study German at AS or A Level?

- f) Speaking German connects you with approximately 229 million people in the world.
- g) German is the official language in Germany, Austria, Switzerland, Luxembourg and Liechtenstein.
- h) Germany is a world leader in new technological developments.
- i) Germany is home to 40% of the most innovative companies worldwide.
- j) Education in German Universities is free.

## Careers in which German is useful include:

- Journalism
- Aviation
- Engineering
- International business
- The Diplomatic Service
- International Law and Finance
- Market research
- Library and information services
- Hospitality/travel and tourism i.e. hotel and resort management
- Interpretation and translation
- Foreign language teaching
- Language and speech therapy (in combination with a science)

## Course aims

The course aims to develop the student's ability to:

- k) Further intellectual and personal development by promoting learning and social skills.
- l) Derive enjoyment and benefit from language learning.
- m) Communicate confidently, clearly and effectively with speakers of the language.
- n) Use language in a variety of contexts, genres and for different purposes.
- o) Show insight into target language society, culture and heritage.
- p) Acquire knowledge, skills and understanding for practical use, further study and/or employment.
- q) Take their place in a multilingual global society.

## Course content

The study of German at A and AS level is based around four general topic areas:

- ✓ Media – television, advertising, communication technology
- ✓ Popular culture – cinema, music, fashion and trends
- ✓ Healthy living/lifestyle – sport and exercise, health and well-being, holidays
- ✓ Family and relationships – family, friendships, marriage and partnerships

A level students will also study two cultural topics, plus the following:

- ❖ Environment - pollution, energy and protecting the planet
- ❖ The multicultural society – immigration, integration and racism
- ❖ Contemporary social issues – wealth and poverty, law and order, science and technology

Cultural topics include:

- ❖ a target language-speaking region or community
- ❖ a period of 20<sup>th</sup> Century history from a target language country/community
- ❖ an author, dramatist, poet, director, architect, musician or painter from a target language country/community

## How is German examined at A and AS level?

The course will be assessed by examination only and will be externally assessed by AQA

		Tasks	% of AS	% of A level	Length of exam
<b>Unit 1</b>	Listening, reading and writing	- Listening comprehension questions (answers in English and German) - Reading comprehension questions and cloze test - 200 word essay	70%	35%	2 hours
<b>Unit 2</b>	Speaking test	- 5 minute discussion of stimulus card (one topic) - 10 minute conversation (3 other topics)	30%	15 %	35 minutes (including 20 preparation time)
<b>Unit 3</b>	Listening, reading and writing	- Listening comprehension questions (answers in German) - Reading comprehension questions and translations (German to English and English to German) - 250 word cultural topic area essay	-	35%	2 hours 30 minutes
<b>Unit 4</b>	Speaking test	- 5 minute discussion of stimulus card ( <b>one</b> topic area) - 10 minute conversation (2 <b>cultural</b> topics)	-	15%	35 minutes (including 20 preparation time)

The A2 examination tests the same linguistic skills as at AS but at a higher level in more demanding and open-ended tasks using wider language registers.

There is no restriction on the number of times a unit can be attempted prior to a student claiming certification for the qualification. The best available result for each contributing unit will count towards the final grade. Results of units will be held in AQA's unit bank for as many years as this specification remains available. There are no forbidden combinations.

Ms R Flanagan  
**German Department**

# HISTORY

## Why study ... HISTORY at AS or A level?

The study of 'A' level history provides the student with an opportunity to analyse the major human developments during selected historical periods. The subject will help develop critical thinking skills.

### Course content

The first year of the course covers the **AS** syllabus

This requires candidates to study one area and period in History. The examination includes source based studies through which candidates develop their skills of interpreting and evaluating sources. The essay questions expect students to answer in continuous prose. Candidates' answers should be focused on the question and should show depth of historical understanding and evidence of reading.

The Topics studied for AS includes:

- ❖ Source based question:  
The search for international peace and security 1919 and 1945.
- ❖ France 1789-1804
- ❖ Industrialization: The industrial revolution 1800-1850 in Britain, France and Germany
- ❖ Nationalism: The origins of the first world war 1900-1914
- ❖ Imperialism
- ❖ Russian Revolution 1905 – 1917

During the second year of the course leading to the A2 examination, the course includes:

- ❖ Source based question:  
Origins and development of the cold war 1941-1950.
- ❖ Europe of the dictators 1918-1941
- ❖ International History 1945-1991

The two periods are studied in order to identify patterns in and connections between, apparently contrasting events and developments. Students therefore learn to portray a greater understanding of History because all political social, cultural and economic developments have their roots in the past.



There are many careers which require history at 'A' level; therefore it is useful as preparation for careers in:

- ❖ Law
- ❖ Finance
- ❖ Politics
- ❖ Diplomatic service
- ❖ Philosophy
- ❖ Anthropology
- ❖ The media
- ❖ Writer

amongst others

If you want to study law at university you should check the entry requirements. Some universities prefer an 'A' level in History.

### **How is HISTORY examined at AS and A level?**

#### **AS Level**

Component 1	1 Hour	Document based. Compulsory questions on the search for international peace and security 1919-1945.
Component 2	1 hour 30 minutes	Outline study: Choice of questions on the other three topics listed.

#### **A2 Level**

Component 3	1 Hour	Interpretations question on origins and development of the cold war 1941-1950.
Component 4	1 hour 30 minutes	Depth study: Choice of two questions out of five.

Ms J Kariuki  
Mrs L Ayodo  
Mr D Mwangi  
Mrs O Morgan  
**History Department**

# LAW

## Why study ... LAW at 'AS' and 'A' level?

### **Course aim**

The main aim of the course is to provide grounding in the main principles of the law prevailing in England and Wales. It will enable students to develop knowledge, understanding and critical awareness of the structure, personnel and operation of the English legal system and of two areas of substantive law as well as encouraging them to develop skills of analysis and problem solving through application of legal rules.

### **Subject Content**

#### **Paper 1**

##### **Structure and operation of the English Legal System**

Unit 1 Sources of Law

Unit 2 Machinery of Justice

Unit 3 Legal personnel

Together these topics provide a detailed insight into the origins and development of law, functions and proceedings of legal institutions and of the roles of those working within those institutions.

#### **Paper 2**

##### **Data Response**

Candidates study the same content as for paper 1, but in paper 2 the candidates ability to analyse a given case is tested.

#### **Paper 3**

##### **Law of Contract**

Unit 1 Formation of Valid Contracts

Unit 2 Contents of Contracts

Unit 3 Vitiating Factors

Unit 4 Remedies for Breach

#### **Paper 4**

##### **Law of Tort**

Unit 5 Negligence and Occupier's Liability

Unit 6 Private Nuisance and Rylands v Fletcher

Unit 7 Trespass

Unit 8 Remedies

## Careers which require Law are:

- ❖ Law
- ❖ International Relations
- ❖ Politics

As with all Humanities based subjects this AS/A Level would be useful to access to a wide range of Humanities based courses.

However, Law is also very useful in the following careers:

- ❖ Media
- ❖ Business and Law
- ❖ Publishing
- ❖ Journalism

## How is LAW examined at AS and A level?

**Paper 1: The structure and Operation of the English legal System**

**Paper 2: Data Response: The English Legal System**

**Paper 3: Law of Contract**

**Paper 4: Law of Tort**

### **Advanced Level**

Paper	Type	Duration	Max. mark	Weight	Number of questions
1	Essay	1hr30	75	30%	3 from 6
2	Data response	1hr30	50	20%	1 from 2
3	Essays and Problems	1hr30	75	25%	3 from 6
4	Essays and Problems	1hr30	75	25%	3 from 6

# MATHEMATICS

## Why Study ... MATHEMATICS at AS or A levels?

Mathematics is the language of the sciences and will therefore support any combination of Physics, Chemistry and Biology. The skills and concepts studied also combine well with Economics, Business Studies, Accounts and Geography.

### Course Content

The AS level course includes:

UNIT P1	Pure Mathematics 1:	Quadratics Functions Coordinate Geometry Circular Measure Trigonometry Vectors Series Differentiation and its application Integration and its application
UNIT S1	Probability & Statistics 1:	Representation of data Permutations and combinations Probability Discrete random variables and Normal distribution

The A2 Level curriculum contains the following units in addition to unit P1 and unit S1 above.

UNIT P3	Pure mathematics 3:	Algebra Logarithms and exponential functions Trigonometry 2 and its application Differentiation 2 and its application Integration 2 Numerical Solution equations Vectors 2 Differential equations and complex Numbers
---------	---------------------	---



# AS/A LEVEL MUSIC

Similarly to GCSE, the course is broken down into three components: performance, composition and analysis/listening. All three are studied and assessed in the first and second year of study. Changes regarding the structuring of A level assessments mean that the results achieved at AS level will not be carried forward into a candidate's final A-level grade.

## Description of Components

Each component is broadly the same at AS level and at A level. It is the level of understanding shown and the weighting of each component that differentiates the first and second year of study.

Component	Weighting	
	AS level	A level
Component 1	40%	40%
Component 2	30%	35%
Component 3	30%	25%

## Component 1: Appraising Music - Exam

Compulsory Area of Study	Optional Areas of Study (one at AS level, two at A level from the following)
Western classical tradition 1650–1910	Pop music
	Music for media
	Music for theatre
	Jazz
	Contemporary traditional music
	Art music since 1910

## **Section A – Listening**

Students will answer two (three at A level) sets of questions (one compulsory, one/two from a selection). They will listen to music from two (three at A-level) Areas of Study. Each set of question will include one extended writing answer.

## **Section B Analysis**

Students will answer one (two at A level) set of linked questions, including short answers and extended writing, on one extract (two at A level) from the set works from the compulsory Area of Study. The question paper will include scores of the extract. Students will be assessed on their ability to analyse and evaluate the music heard and demonstrate knowledge and understanding of musical elements and musical language to make critical judgments.

## **Section C Essay**

Students will answer one essay question on one area of study (two at A level) from the optional Areas of Study. Students will be assessed on their critical understanding across the genres, styles and traditions studied and their ability to show sophisticated connections between the music and its context. Students will need to demonstrate their knowledge and understanding of two of the named artists/ composers and at least two published or recorded works.

## **Component 2: Performance**

Students will be recorded performing. At AS level, this performance must be between 6-8 minutes. At A level, this performance must be between 10-12 minutes. The performance can be a solo performance, a performance as part of an ensemble or a musical technology live performance. Although the level of difficulty only accounts for 10% of the total mark for Component 2, it is expected that students should be performing pieces of at least a grade 5 standard at AS-level, and of at least a grade 6 standard at A-level.

## **Component 3: Composition**

Each student must compose two pieces. One composition must be in response to an externally set brief and the other composition is freely composed by the student. Students will choose from 7 externally set briefs. The briefs will include different stimuli such as: photographs, images or films; written words, poems or a piece of text; and a form of notation.

At both AS level and A level both compositions combined must be between 4 ½ - 6 minutes.

Mr J Franklin

Mr A Leedale

Mr P Martinsen

**Music Department**

# PSYCHOLOGY

## Why study ... PSYCHOLOGY at 'AS' and 'A' level?

### The syllabus encourages:

An interest in, and appreciation of, psychological principles through an exploration of the ways in which psychology is conducted. This includes a review of a number of important research studies and an opportunity to look at the ways in which psychology has been applied.

The syllabus is divided into the Core Studies (Paper 1 and Paper 2) at AS Level and the Specialist Choices (Paper 3) at A2. The Core Studies have been selected to reflect five core areas of Psychology:

- ❖ Cognitive
- ❖ Social
- ❖ Physiological
- ❖ Developmental
- ❖ Psychology of Individual Differences.

The Specialist Choices include Psychology of Education, Health, Organisations, Environment and Abnormality. At Brookhouse, in the A2 classes, we study Abnormal Psychology and Health Psychology. In contrast to the first part of the course, this part looks at the application of theoretical and research issues in prescribed areas. Students are expected to study specific examples of work in their two chosen areas: health and abnormality. Students will apply the core studies to the chosen specialist area.

Students are encouraged to study sufficient psychological research to be able to illustrate the issues in the syllabus and evaluate them.

Careers in which the study of psychology at AS or A level is useful include:

- ❖ Clinical professions : medicine, behavioural sciences, public health, counselling , experts
- ❖ Educational professions : teaching, educational leadership, educational psychology
- ❖ Industrial & Organisational psychology, Organisational behaviour, Human resource management
- ❖ Marketing & Management, Advertising & Marketing
- ❖ Law & Criminology
- ❖ Ergonomics & Human factors in Engineering



## How is PSYCHOLOGY examined at A and AS level?

### Core Studies AS Level

				Max. mark	Weighting
Paper 1	Short answer & structured response questions	1 hour 30 mins	Section A : 15 compulsory short answer questions Section B : 2 structured essay questions	80	50%
Paper 2	Short answer + structured essays	1 hour 30 mins.	Section A : 1 essay question on methodology and 1 essay question on issues and debates. Section B : 1 essay question from a choice of two essay questions.	70	50%

### Specialist Options A2 Level

Paper 1 and Paper 2 are carried over from AS level and make up 50% of the final grade.

				Max. mark	Weighting
Paper 1	Short answer + structured response questions	1 hour 30 mins	Section A : 15 compulsory short answer questions Section B : 2 structured essay questions	80	25%
Paper 2	Short answer + structured essays	1 hour 30 mins.	Sections A: 1 essay question on methodology and 1 essay question on issues and debates. Section B : 1 essay question from a choice of two essay questions.	70	25%
Paper 3	Short answer and structured essays	3 hours	Sections A: Short answer essay questions. Section B : Structured essay: topic areas Section C: Structured essay: Applying Psychology from a choice of two essays.	80	50%

Ms S Bantu  
Mrs S Wanjohi  
**Psychology Department**

# A-LEVEL PHYSICS

Through the course students develop a systematic body of scientific knowledge and the skills needed to apply this in new and changing situations in many domestic, industrial, environmental and scientific research contexts.

Students also develop an appreciation of the practical nature of physics, and develop experimental and investigative skills based on correct and safe laboratory techniques.

Students are enabled to form hypotheses and design experiments to test them.

Additionally they are enabled to evaluate, in terms of their scientific knowledge and understanding, the benefits and drawbacks (including social, environmental and economic) of scientific and technological developments.

## **Course Content:**

A-level Physics allows students to appreciate how fundamental Science works and to study topics that particularly interest them – including Telecommunications, Medical Physics and Classical Physics. The A-level Physics 9720 specification gives students a seamless transition from IGCSE to university courses in Engineering and Physics-related disciplines. It maintains students' enthusiasm for Physics and develops their interest in the subject. The laboratory option offers practical and investigative experience throughout the two years of study. The AS and A2 years offer a traditional specification based on the theories and concepts of Physics, for example Radioactivity, Quantum Phenomena, Electricity, Fields, Waves and Mechanics and Doppler effect including practical physics.

In the full 'A' Level the candidates will study the above topics in detail and also Applications in Physics which includes topics on:

- The use of direct sensing in electronic circuits
- Remote sensing and medical imaging techniques
- Communicating information in satellites, radio and mobile phone networks that have now been amalgamated in the various topics of the syllabus.

The syllabus emphasizes the importance of skill rather than recall and incorporates social, environmental, economic and technological aspects of physics wherever possible. It is expected that students make full use of ICT throughout the course.

Careers which usually require 'A' level Physics are:

- All branches of Engineering
- Space science
- Biotechnology
- Medical electronics
- Optometry
- Teaching Physics
- Radiography
- Architecture

Careers in which Physics is useful include:

- Motor Mechanics
- Electrician
- Computer science
- Many branches of Medicine
- Laboratory technician
- Aviation
- Textile technology
- Environmental science
- Sports science
- Design
- Medical Electronics
- Photography and Audiovisual techniques
- Telecommunications

How is PHYSICS examined at AS and A2 Level?

AS Level

Paper 1	1 Hour	31%	Multiple-choice question covering the whole syllabus
Paper 2	1 Hour	46%	Compulsory structured questions covering the whole syllabus
Paper 3	2 Hours	23%	Practical test

A2 level

(You must successfully complete the AS course and pass the exam)

Paper 4	2 Hrs	38%	Compulsory structured questions covering the whole syllabus
Paper 5	1 Hr 15 min	12%	Planning, analysis and evaluation based on practical physics

Mr E Ombui

Mr S Gangla

**Physics Department**

# SOCIOLOGY

## Why study ... Sociology

In a rapidly changing world, Cambridge International A & AS Level Sociology offers students the opportunity not only to explore the processes that are shaping current trends, but also to develop an understanding of the complexity and diversity of human societies and their continuities with the past.

The study of Sociology should stimulate awareness of contemporary social, cultural and political issues, and focus attention on the importance of examining these issues in a rigorous, reasoned and analytical way. The AS Level provides a solid grounding in the central ideas and approaches in Sociology. A-Level students can choose to explore a variety of important areas of sociological enquiry including education, global development, media and religion.

## Course Content

For the AS Level, candidates will study two units:

Unit 1 – The family

Unit 2 – Theory and methods

The AS Level will be assessed through two written papers, Paper 1 and Paper 2. These papers both test units 1 and 2. In each of Paper 1 and Paper 2, candidates answer one compulsory data response question and one essay question from a choice of two.

For the A Level, candidates will study units 1 and 2 plus up to four additional units:

Unit 3 – Education

Unit 4 – Global development

Unit 5 – Media

Unit 6 – Religion

The syllabus allows candidates to study sociology in the context of different societies, including their own, and from a wider global perspective. The distinction between traditional and modern societies is a central theme in most of the study units.

### *Assessment*

The A Level will be assessed through three written papers, Papers 1, 2 and 3.

Papers 1 and 2 are the same as for the AS Level.

In Paper 3, candidates answer three essay-style questions from a choice of eight.

Paper 3 is in four sections, one for each of the units 3 to 6. There are two essay questions in each section and candidates must choose three questions from three different sections.

### **Sociology as subject is useful in the following careers**

- Law
- Economics
- Management
- Medicine
- Social work
- Counseling
- Business
- Psychology
- International relations
- Marketing
- Journalism
- Criminal Justice Professional
- Therapist
- Human Resources Professional
- Research Analyst
- Environmental Consultant
- Government Analyst
- Policy Making
- NGO Professional
- Health Industry Professional

Mrs C Ogweno

**Sociology Department**

# SPANISH

## Why Study Spanish at AS Level?

Studying Spanish at an advanced level can be a stimulating experience as the course aims to develop the student's ability to gain:

- a) A lasting appreciation of language and learning
- b) The ability to comprehend Spanish in a wide range of contexts
- c) The ability to communicate readily in Spanish for a variety of purposes
- d) A useful knowledge of, and insights into, past and contemporary Spanish-speaking culture
- e) Valuable skills for foreign travel, further education and employment

## Course content

The study of Spanish at 'A' and AS Level is based around General Topic Areas such as:

- ✓ Media (*Television, Advertising and Communication Technology*)
- ✓ Popular culture (*Cinema, Music and Fashion trends*)
- ✓ Healthy Living/Lifestyle (*Sport and Exercise, Health&Well-being and Holidays*)
- ✓ Family/Relationships (*Friendships, Marriage & Partnerships and Family in general*)

## Careers in which Spanish is useful include:

- Journalism, Aviation, International Business and Market research
- The Diplomatic service
- International Law and Finance, Library and Information services\
- All careers involving Travel and Communication
- Interpretation and Translation
- Foreign language teaching
- Language and speech therapy (must be combined with a science)

## **How is Spanish examined at AS level?**

The course will be assessed by examination only and will be externally assessed by AQA. The students are required to complete 2 units at AS level.

The specification is available for assessment in the June series.

This course is particularly suitable for students who have studied GCSE Spanish.

<b>AS EXAMINATION</b>	
<b>UNIT 1 (SPAN 1)</b>	
<b>LISTENING, READING &amp; WRITING</b> <b>2 hours</b>	<b>70% of the total AS marks</b> <b>35% of the total A-Level Marks</b>
<b>UNIT 2 (SPA2T/V)</b>	
<b>SPEAKING</b> <b>35 minutes (including 20 mins preparation time)</b>	<b>30% of the total AS marks</b> <b>15% of the total A-Level Marks</b>

The AS examination tests the linguistic skills of the student, but at a higher level in more demanding and open-ended tasks using a wider language register.

Mr K Mwaniki  
**Spanish Department**

# BTEC ART & DESIGN

Here at Brookhouse School we offer a BTEC Level 3 Extended Diploma in Art and Design which is designed to introduce you to the main areas of 2D and 3D Art and Design. It provides practical experience as well as enabling students to focus on specific specialized subject areas in greater depth. Come and join us after you 'O' Levels or Form 4 (8-4-4) to experience something that can change your perspective about Art and Design.

## **Why Study BTEC Art and Design?**

1. Produce a strong portfolio covering all aspects of Art and Design
2. Excellent facilities with individual studio space from the beginning of the course till the end of the course.

BTEC Art and Design program is a vocationally based course that prepares you for a degree level study in a wide range of art and design disciplines. Through personalized support, you will have every opportunity to produce work of high standard together with tutor support. This course will also give students the opportunity to appreciate the work of local and international artists and designers and to learn about associated professional practice within the art and design industry.

This highly practically experimental course introduces you to a wide range of ideas and processes, encouraging you to work independently to develop your own practice after completion of the course. You will learn from an experienced team of local artists and teachers who combine teaching with a strong commitment to their own art practice. Students also take part in a program of educational visits trips to the museum, overnight trips to Mombasa, Amboseli game park etc.

## **Some Specialist's subjects include:**

- Fine art painting,
- Sculpture, print,
- Graphic design,
- Computer graphics,
- Surface decoration,
- Textiles,
- Contextual studies.

## **Progression pathway**

BTEC Art and Design course prepares you for a progression to a variety of specialist art and design courses, including BA/BSC (Hons) degree and teacher training. BTEC Art and Design is recognized all over the world.

Most Graduates apply to higher education related to the Art and Design industry. Most of the students apply to universities in the UK, Canada, and South Africa etc.

Some of our previous students secured a place in Interior design at Birmingham University, looking at her portfolio and distinction credits she got offered into the second year of her course. One of them went off to South Africa to do a combined course in Engineering and Graphic Design. Brookhouse School provides all necessary support and guidance, which ever route your child may want to choose.



Currently Brookhouse School is the only institute offering a BTEC Art and Design in the country.

	Diploma Level 2	Extended Diploma Level 3
Credits	60	180
Equivalence	1 A- Level - 4 IGCSE	3 A- Level
Duration	1 year full time (3 terms)	2 years full time (6 terms)
Enrollment time	Only during September and January	

Employment opportunities after you complete this course

In Nairobi the percentage of job securement is over 70 %, one can open up their own Art and Design studio practice or work with one of the famous local artists as internship program. This enables them to get more experience and exposure to the Art and Design Industry within our local environment.

**With further study or experience this could lead to a career in:**

- Advertising
- Architecture
- Animation/cartooning
- Graphic design
- Illustration
- Textile design
- Interior design
- Special effects
- Product design
- Costume design
- Video gaming design
- Photography
- Theatre stage design and film set design
- Make-up artist
- Art teacher and many more.

Mrs S Mughal

**BTEC Art & Design Department**

# **BTEC LEVEL 3 Enterprises and Entrepreneurship - Extended Diploma Level 3 (Full-time)**

Level 3 - BTEC National (A Level or IB or Equivalent)

## **Overview**

This course is designed for people desiring to pursue a career in Business Management and Entrepreneurship. It prepares students to be business owners and if employed, they portray entrepreneurship skills at work.

The course equips learners with the knowledge on how to use talent, passion and opportunities to generate and implement business ideas. By the end of the course, the learner will have covered content enough to start and run their businesses. The course not only requires students to generate business ideas, but write business plans that may be used to start and run the businesses.

The course is delivered in form of lectures, workshops, research and class discussions. Students are often exposed to real business environment by doing numerous visits to companies in various sectors. This helps in relating the theoretical concepts learnt in class and the real case studies.

## **Qualification Gained**

The course leads to the following qualification: Edexcel BTEC Level 3 Extended Diploma in Enterprise and Entrepreneurship. This is attained after **two** years of study. The programme is equivalent to 3 A Levels (with a maximum 420 UCAS points being available for this programme).

## **Learning Methods**

Studying and learning the knowledge and theory elements of the course inevitably means that some time will be spent in classrooms, lecture theatres and IT suites, but even there the emphasis is on practical application.

Students are encouraged to learn in team and make presentations so as to improve their communication skills.

Research skills are key in this course and this requires students to adhere to all academic research rules such as plagiarism. These skills give them an upper hand during university studies and other work related research and publications.

Some of your learning will be through e-learning and the course makes extensive use of Google Classroom, the Brookhouse's intranet site.

## **Assessment Methods**

The majority of your assessment will be based on the evidence that you collect through your practical activity, research and creativity.

However, you will be required to write reports, keep logs and notes of meetings and discussions, make presentations, and provide written and verbal responses to questions.

Though the assessment is internal, Pearson BTEC must approve all the results before being considered final. This is after several quality checks have been done.

## Course Content

Below is a list of units covered:

<b>Pearson BTEC Level 3 Extended Diploma in Enterprise and Entrepreneurship</b>	
<b>Unit</b>	<b>Mandatory units</b>
1	The Innovative Entrepreneur
2	Business Planning and Pitching
3	Financial Planning and Implementation
4	Launching your Business Vision
5	Monitoring the Performance of your Business
6	Operating your Business
7	Planning the Future Strategy of your Business
8	Leadership and Teamwork
10	Market Research and Analysis
14	Brand Development and Promotion
	<b>Optional units</b>
9	Working as an Entrepreneur
11	Financial Literacy and Awareness
12	Business in an International Context
13	E-marketing and Website Design
15	Social Enterprise
16	Managing a Business Event
17	e-Commerce
18	Understand Retail
19	Relationship Marketing
20	Business Project Management
21	Recruitment and Selection in Business
22	Development Planning for a Career in Business
23	Business Markets and the Economy

### Progression Opportunities

On successful completion of this course you could progress onto a Higher Education programmes in the world's top universities offering Business related courses.

### Career Opportunities

The programme is designed to give you the variety and type of skills and knowledge that will help you to succeed, whatever career path you eventually follow.

It leads to careers such as Business Management, Business and IT, International relations, Commerce, Public relations, event management, Financial Management, Human resource Management, Marketing, Economics, project management and Law in some universities among other careers.

Mr R Kiptum

**BTEC Enterprise Department**

# Music Performance - Extended Diploma Level 3 (Full-time)

Level 3 - BTEC National (A-Level or IB or Equivalent)

## Overview

This course is designed for people wanting to pursue careers in the rapidly evolving music and multimedia production industries.

The course comprises workshops, lessons, master classes, ensemble and solo performance opportunities, lectures and seminars as well as business skills and real world projects.

Everything you do will be industry related, forging links between academic study, the development of technical skills and the business itself.

During your studies academic tutors and professional musicians of international esteem will help develop students' skills in performance, in a wide range of styles and techniques.

In the second year of the course, you will be introduced to studio recording and will further develop skills using computer software whilst still developing skills in creative composition across the wide spectrum of music media and its various roles in the industry.

The second year curriculum gives you the opportunity to personalise your learning experience in order to enhance the chance of realising your full potential.

## Who is course for

This course is designed for those wanting to develop careers in the music profession and related industries. Students can choose to specialise more in the second year in either Performance or Production.

## Qualification Gained

The course leads to the following qualification: Edexcel BTEC Level 3 Extended Diploma in Music. The programme is equivalent to 3 A Levels (with a maximum 420 UCAS points being available for this programme).

## What You Learn

### Course Content

For the first year of the course you will have the opportunity to gain experience across the full spectrum of music industry related activity.

There is an equal mix of performance and music production units, as well as contextual work.

In the second year you will continue to develop skills learnt in the first year, including continuing to study creative composition but you will develop new skills in recording and further develop the use of up-to-date computer software (Apple Logic Pro).

All students will be required to plan and realise projects with a specific market in mind, whether it be mainstream popular music genres, media based formats such as composition for moving image or producing recording work to a high professional standard.

### **Learning Methods**

The course is very practical and you will be spending the majority of your time in rehearsal rooms, studios, music venues and other creative spaces.

Studying and learning the knowledge and theory elements of the course inevitably means that some time will be spent in classrooms, lecture theatres and IT suites, but even there the emphasis is on practical application.

Some of your learning will be through e-learning and the course makes extensive use of Google Classroom, the Brookhouse's intranet site.

### **Assessment Methods**

The majority of your assessment will be based on the evidence that you collect through your practical activity and will include recordings, performance videos and other similar evidence.

However, you will be required to write reports, keep logs and notes of meetings and discussions, make presentations, and provide written and verbal responses to questions.

### **Progression Opportunities**

On successful completion of this course you could progress onto a Higher Education programmes in the world's top music universities.

### **Career Opportunities**

The programme is designed to give you the variety and type of skills and knowledge that will help you to succeed, whatever career path you eventually follow.

The career options within the business are not limited to the more obvious choices of performer or producer, but include work in community music project leading, artist/band management, retail and music teaching. Some of these will require further study.

### **Additional Course Costs**

Many courses require students to have specialist equipment or materials and there are other additional costs which should be noted.

For this course, the essential equipment for all students is as follows: Apple Mac Laptop, A4 Ring Binders, Manuscript paper, A4 lined paper, plastic wallets, pens, pencils, rubbers, Quality Stereo Headphones (closed back with stereo 1/4" jack adapter), USB memory stick, CD-R's and DVD-R's for backing up and storing work. You will also be required to buy a music theory book and instrumental repertoire books but you will be advised of this at the start of the course.

Mr A Leedale

**BTEC Music Department**

**Brookhouse School**  
**Magadi Road, Langata**  
**P.O. Box 24987, Nairobi, 00502 Kenya**  
**Telephone: (254 020) 243 0261-6**  
**Fax: (254 020) 243 0269**  
**E-mail: [info@brookhouse.ac.ke](mailto:info@brookhouse.ac.ke)**  
**Website: [www.brookhouse.ac.ke](http://www.brookhouse.ac.ke)**