

# **GATEWAY HIGH SCHOOL**

**AS and A LEVEL  
CURRICULUM INFORMATION BOOK  
2022 –2023**

# **AS and A LEVEL CURRICULUM GUIDE 2022-23**

## **INTRODUCTION**

This handbook is designed to help students select the best subjects to study, where they have an interest, talent or career need. It gives parents a say in what the students want to study. The Gateway High School Curriculum is based on the Cambridge Advanced Subsidiary (AS) and Advanced (A) Level curriculum which is the world's most popular international qualification for 16 - 19 year olds. Cambridge AS and A Level is recognised by leading universities and employers worldwide, and is an international passport to development and success. Many universities require a combination of Cambridge International Advanced Levels and Cambridge IGCSEs to meet their entry requirements.

## **ADMISSION TO INSTITUTIONS WORLDWIDE**

Learners use Cambridge International AS & A Levels qualifications to gain places at leading universities worldwide including the United Kingdom, United States of America, Canada, Australia, New Zealand, India, Singapore, South Africa and Germany, to highlight just a few destinations.

Cambridge International AS & A Level develops learners' knowledge, understanding and skills in:

- In-depth subject content
- Independent thinking
- Applying knowledge and understanding to new as well as familiar situations
- Handling and evaluating different types of information source
- Thinking logically and presenting ordered and coherent arguments
- Making judgements, recommendations and decisions
- Presenting reasoned explanations, understanding implications and communicating them logically and clearly
- Working and communicating in English.

## **ADVANCED LEVEL CURRICULUM STRUCTURE**

### **Course Organisation**

We believe that after IGCSE/GCE level, students will be ready to choose A Level subjects based on their academic competency and career interest. Students can choose a minimum of 3 up to a maximum of 4 subjects to study over a two year period.

Learners will select three subjects from options 1, 2, 3, or 4.

## OPTION GROUPS

Option 1	Option 2	Option 3	Option 4
Business Digital Media Global Perspectives Mathematics Travel and Tourism	Business Chemistry Computer Science English Literature Physical Education	Biology Chemistry Design & Technology Economics History	Accounting English Language Geography Mathematics Physics

**\*\*Art & Design, AS French & DELF and Biblical Studies – see Academic Head for more information.**

## ASSESSMENT

### Assessment options

At Gateway, we have three assessment options to gain Cambridge International AS and A Level qualifications depending on the subjects taken. The AS Level syllabus content is half a Cambridge International A Level.

Cambridge AS and A2 assessments will take place at the end of the first and second year respectively for most subjects. These assessments can include written, oral, coursework and practical assessment depending on the subject. In French the Advanced Level assessment will take place at the end of the second year.

Grades are benchmarked using internationally recognised grades, the Cambridge International Advanced Level is reported on a grade scale from A\* (highest) to E (minimum required performance). There is no A\* grade for Cambridge International AS Levels, which run from grade A to E.

### Advice to Advanced Subsidiary Level students

Lower sixth students will take Advanced Subsidiary exams at the end of the first year of their course. Students are expected to do their best at these exams to avoid having to rewrite the exams as this tends to put unnecessary pressure on the learner. You are advised not to take up 2 or more subjects that require an examination project component without seeking clearance from departments concerned.

## **CHOOSING SUBJECTS**

### **Before Choosing Subjects**

Prior to subject choice students should have:

- A clear idea of available subjects and their implications.
- An appreciation of their individual strengths and interests.
- Some idea of the kinds of courses and subjects required by different careers.
- All students are encouraged to discuss their options with parents and make an initial selection of subjects, based on their own individual needs.

### **Advice to Learners**

The following traps should be avoided if a student sincerely wants the best set of subjects.

- Just choosing subjects because your friends are choosing them when your capabilities are different.
- Prejudging subjects on little or no information and then selecting or rejecting these in consequence.
- Avoiding challenging subjects. However, make sure you have a reasonable chance of success.

### **Final Check**

You should now look at your list of subjects and see how they measure up against the following considerations:

- Am I certain where all my subjects lead?
- Do they prepare me for what I want, e.g. college, university and employment?
- Are these subject choices realistic for me?

## **DEPARTMENTAL SUBJECT DESCRIPTIONS**

### **BUSINESS DEPARTMENT**

#### **Biblical Philosophy**

The department appreciates the role of education as a social construct which is instrumental in transforming global markets for the best corporate governance practices (LS Vygotsky). Therefore, the department seeks to instil in the mind of the learner, the mandate for humankind to exercise dominion over God's creation (Refer to Genesis chapter 3: The Story of God's Creation).

The departmental curriculum is delivered in the context of biblical values that promote good corporate governance. The department is guided by the key values of; stewardship, accountability, servant leadership and integrity (1 Corinthians 4: 2).

The teaching methods adopted seek to allow collaboration between students and between students and the teacher in order to empower students for transforming the global market places for the best business ethics.

#### **The nature of Business subjects**

Economics, Business Studies and Accounting essentially equip learners to make informed decisions about business. The Business course helps to develop problem solving techniques and skills required for one to face the challenges that confront mankind in the 21<sup>st</sup> century.

#### **Accounting (9706)**

**Contact Person:** Mrs J. Chingono

#### **Entry Requirements**

1. Grade C or better in Accounting at IGCSE/O Level
2. Minimum of 5As for students who have not done Accounting at IGCSE/GCE Ordinary Level.
3. A good pass in Mathematics is an added advantage.

#### **Course Details**

The Cambridge International AS and A Level Accounting syllabus enables learners to apply their accounting knowledge and understanding in order to analyse and present information, give reasoned explanations, and make judgements and recommendations.

#### **Course Content at a glance**

1. The double-entry system and book-keeping
2. Financial Accounting
3. Cost and management accounting
4. Computerised accounting systems

#### **Career Pathways**

Chartered Accountancy, Auditing, Financial Management, Entrepreneurship, Tax Consultancy, General Management, Bookkeeping, Lectureship, Consultancy and Teaching

## **Business (9609)**

**Contact Person:** Mr S. Paduze

### **Entry Requirements**

Grade B or better in Business Studies and C or better in Mathematics.

### **Course Details**

The Business syllabus enables learners to understand and appreciate the nature and scope of business, and the role it plays in society. The syllabus covers environmental factors: economic, ethical, political, governmental, legal, social and technological issues, and encourages a critical understanding of organisations, the markets they serve and the process of adding value.

### **Course Content at a Glance**

1. The business and its environment
2. People in Business
3. Operations Management
4. Finance and Accounting
5. Marketing
6. Strategic Management

### **Career Pathways**

General Management, Business Analysis, Business Strategy/Development, Business Law, Human Resources, Politics, Lectureship, Insurance Brokerage, Business Research, Media and Communication, Marketing and Financial Management

## **Economics (9708)**

**Contact Person:** Mr J. Kawadza

### **Entry Requirements**

1. Students do not have to have done Economics at IGCSE/GCE Ordinary Level.
2. Students should have a grade B or better in Mathematics at IGCSE/GCE Ordinary Level.

### **Course Details**

Through the Cambridge International AS and A Level Economics syllabus, learners study how to explain and analyse economic issues and arguments, evaluate economic information, and organise, present and communicate ideas and judgements clearly.

### **Course Content at a Glance**

1. Economic issues and concepts
2. How economies work
3. Microeconomics
4. Macroeconomics

### **Career Pathways**

Business analyst, Consultancy, Banking, Lectureship



## **Travel & Tourism (9395)**

**Contact person:** Mr G. K. Zimunya

### **Entry requirements**

Grade B or Better in Travel and Tourism, Business Studies, Geography, English Language (an advantage)

### **Course details**

This syllabus encourages learners to appreciate the scale and importance of the travel and tourism industry in the world and recognise the positive and negative impacts the industry may have on people, environments and economies.

### **Course content at a glance**

- Feature of the travel and tourism industry
- Principles of customer service in travel and tourism
- Planning and managing a travel and tourism event
- Defining the tourism market
- Building a destination brand
- Monitoring the effectiveness on the destination brand
- Organisations involved in destination management, their role and their priorities
- Impact of tourism development

### **Career pathways**

Travel and tourism Degrees in various fields, General Management, Business analytics, Human Resources management, Various careers in Resorts, Cruise Ships, Airlines, Hotels and Entertainment establishments.

## **HUMANITIES DEPARTMENT**

### **Philosophy Statement**

The Department comprises of the following interrelated disciplines: Geography, History Global Perspectives, Religious Studies and Divinity. The following themes are considered critical threads of the Humanities Department which teachers and pupils should understand and appreciate; creation, stewardships, obedience and rewards.

### **Geography (9696)**

**Contact Person:** Mr E. Mutetwa

### **Entry Requirements**

Grade B or better in IGCSE/GCE Ordinary Level Geography

### **Course Details**

The Geography syllabus builds upon skills gained at Cambridge IGCSE (or equivalent) level study. Learners widen their knowledge and understanding of the subject, while developing their investigative abilities and their evaluation and decision-making skills.

The syllabus is wide-ranging and comprises a variety of options. For example, learners can study topics such as hydrology and fluvial geomorphology, atmosphere and weather, rocks and weathering, population change and settlement dynamics. The syllabus considers a range of environments, from tropical to arid, and learners can also study subjects such as environmental management, global interdependence and economic transition.

### **Career Pathways**

Geology, Surveying, Rural and Urban Planning, Mining, Natural Disaster Management, Environmental and Meteorological Studies, Lecturing, Research and Teaching

### **Global Perspectives and Research (9239)**

**Contact Person:** Mrs P. Rusere

### **Advice to Students**

Students should have the ability to work independently read widely and collaborate with other students locally and internationally.

### **Course Details**

Cambridge International AS & A Level Global Perspectives and Research prepares learners for positive engagement with our rapidly changing world. Learners develop research, thinking, reasoning and communication skills by following an approach to analysing and evaluating arguments and perspectives called the Critical Path. Collaborative skills are enhanced through participation in a team project. The skills gained through study of Cambridge International AS & A Level Global Perspectives and Research enable students to meet the demands of twenty-first century learning and to make a successful transition to study in higher education

### **Career Pathways**

Deepens and broadens perspectives across subject disciplines.



## **History (9389)**

**Contact Person:** Mrs S. Mudau

### **Entry Requirements**

Grade B or better in IGCSE/GCE Ordinary Level History

### **Course Details**

Cambridge International AS and A Level History is a flexible and wide-ranging syllabus covering modern history in the nineteenth and twentieth centuries. The syllabus builds upon skills gained at Cambridge IGCSE or Cambridge O Level and develops lifelong skills including understanding issues and themes within a historical period.

The emphasis is again on both historical knowledge and on the skills required for historical research. Learners develop an understanding of cause and effect, continuity and change, similarity and difference, and use historical evidence as part of their studies.

### **Career Pathways**

Archaeology, Museum Science, Records Management, Education, Law, International Relations, Political Economy, Diplomatic Missions, Peace and Conflict Management

## **LANGUAGES DEPARTMENT**

### **ENGLISH LANGUAGE AND LITERATURE**

#### **Philosophy Statement**

In Genesis 1, God used the word to create everything. It is on this truth that we aim to challenge our learners to build up their vocabulary and use it to create and communicate their ideas through composition, comprehension and the spoken word. Language will be used to unlock the mysteries, analyse and understand the dynamics of God's creation through Literature and how it is expressed through figurative language. It is our purpose that this should be embedded within a context of genuine and sincere concern for the pupils and other members of staff arising from our love of Lord Jesus. Indeed, it is He who we seek to please in doing what is right in his sight.

#### **ENGLISH LANGUAGE (9093)**

**Contact Person:** Mr F. Chiweshe

#### **Entry Requirements**

C or better in English Language at IGCSE/ GCE Ordinary Level

#### **Course Details**

English Language is a two-year programme which gives learners the opportunity to study English Language and its use in contemporary communication. It aims to encourage a critical response to texts in a range of forms, styles and contexts, and to promote skills of communication, reading, research and analysis. Through their study, learners will develop an ability to read and analyse material, gaining further knowledge and understanding of English Language features and issues, and writing clearly, accurately, creatively and effectively for different purposes and audiences.

#### **Career Pathways**

Communication and media, Law, Education, Publishing, Journalism

#### **LITERATURE IN ENGLISH (9695)**

**Contact Person:** Mr F Chiweshe

#### **Entry Requirements**

1. B or better in English Literature at IGCSE/ GCE Ordinary Level
2. B or better in English Language at IGCSE/ GCE Ordinary Level

## **Course Details**

Literature in English is a two-year course, which allows students to study a range of texts produced in different genres including poetry, prose and drama. An important foundation for the study of Literature in English is exploring how a writer crafts their work to create meaning through consideration of language, form and structural devices supported by relevant evidence. Analytical skills will, therefore, be developed as students read and interpret texts which include unseen extracts and those studied in class. Hardworking, well organised students who have a passion for reading and a good command of written English will enjoy the subject.

## **Career Pathways**

Communication and media, Law, Education, Publishing, Journalism

## **FRENCH (9716)**

### **Philosophy Statement**

The learning of languages serves to unveil God's mystery of language acquisition, thus helping pupils to appreciate, honour and glorify God as the creator and author of all things. This is expressed by our theme scripture from Colossians1 verse16-17 "For by Him all things were created, in heaven and on earth.....visible and invisible"

We wish to instil in our learners an appreciation of God's diversity in giving us so many language varieties. Learners must experience how the human language can serve God and humanity. At a higher level of their secondary education, senior students will develop an appreciation of diverse cultures and are better placed to use the acquired skills to analyse critical issues within their different environments in order to make decisions from a Biblical viewpoint.

**Contact Person:** Mrs A. Chifamba

### **Entry Requirements**

Grade B or better in IGCSE/GCE Ordinary Level Foreign Language French

## **Course Details**

The Advanced Level French syllabus aims to develop the ability to communicate clearly and confidently in the target language. The syllabus components include oral presentations, study and analysis of contemporary topics enabling learners to develop lifelong skills which can be used in other areas of learning such as analysis and memory skills. Learners also develop a sound understanding of the nature of the French language and language study, as well as the skills and abilities required for further study, work and leisure. French Literature, which is also a key component of the syllabus, provides an insight into the French culture and contemporary societies of countries where the language is spoken. Furthermore, learners are equipped for better integration in communities where French language is spoken.

## **Career Pathways**

There are lucrative opportunities for further study in France in any discipline, including Medicine and International Law (tuition is covered by the French government if studies are in French). The language also offers opportunities to work in Multi-National Companies, Non-Governmental Organisations; Translating and Teaching.

## **LIBRARY INFORMATION**

### **Philosophy Statement**

The Gateway School Library supports the school curriculum and exists as an integral part of the institution's Christian education programme which aims at teaching holistically. The library's philosophy seeks to develop and equip learners to reach their full potential while honouring God and distinguishing truth from false ideologies in their academic, spiritual, physical, and emotional wellness. The Library promotes critical thinking, research, enthusiastic reading and effective use of divergent ideas and information to meet the challenges of the 21<sup>st</sup> century by housing a variety of reading materials.

Our objectives include:

- To provide a caring, safe, and secure learning and reading environment
- To offer reading material support to the curriculum
- To equip our patrons with a reading culture, and research skills in preparation for academic excellence and life-long learning.

**Contact person:** Mrs I. Hungwe

### **Opening Time**

Monday – Thursday: 07:30 – 16:00

Friday: 07:30 -13:05

Holiday: April, August holiday- open only during the first and last weeks.

### **Visiting Library**

Forms 1 – 4 Break and lunch time and at 3pm.

### **Behaviour**

Students are expected to work quietly and considerately.

Computers and all library materials should be handled carefully with clean hands.

### **Library “Cage”**

Bags and blazers should be put in the “cage” for secure storage.

Personal or Class Textbooks should be recorded in the textbook register at the library entrance

### **Computer Use**

- Students and Staff should book to use library computers.
- students who book in advance get the first priority.

### **Print-Outs**

- Should be done under the supervision of library staff
- Cost: Black and white  $\times 5 = \$1$  Colour  $\times 3 = \$1$
- All payments should be done immediately after printing. A form for payment will be filled in by library staff.

### **Flash disks**

- Please ask for permission before use.
- All Flash disks must be scanned before use.

### **Photocopying**

- Payment of 20cents per copy should be made in advance.
- Students should not cut/tear from any library materials.

### **Re-shelving Books**

- Please pack books etc. neatly on the tables or appropriate shelves.

### **Overdue and Lost Books**

- Fines of 20cents a day are payable for overdue books
- Students will be asked to replace lost or damaged books with identical copies or later editions of these. If cash is paid, the school charges double the current price of the book.
- Students are encouraged to read at least one book a week.

The Library staff is always available to assist, feel free to approach them!

## **MATHEMATICS**

### **Philosophy Statement**

**Proverbs 3:19-20** states that, “By wisdom the Lord laid the earth’s foundations, by understanding he set the heavens in place, by his knowledge the watery depths were divided, and the clouds let drop the dew.” This verse shows that all creation originated from God and from Genesis 1 God acknowledged that everything he created was beautiful. As a department our goal is to help students understand how Mathematics fits into God’s purposes for us and that it is possible to enjoy learning it. The order and beauty of God’s creation is revealed in Mathematics as we study diameter and perimeter of islands, oceans and mountains. ‘Teachers should enjoy Mathematics, receive it gladly and thankfully as God’s gift cultivate a classroom climate in which students enjoy it and want to do it’, (From an article on teaching Maths from a Christian Perspective)

### **Mathematics (9709)**

**Contact Person:** Mrs A. Muzamhindo

### **Entry Requirements**

Students must have obtained A or B in IGCSE/ZIMSEC/GCE

### **Special Requirements**

Scientific calculator preferably **CASIO fx-83GT PLUS**

### **Course Details**

The syllabus enables students to apply their knowledge to different problem solving. Knowledge of the content of Cambridge IGCSE Mathematics is assumed. In their first year at Advanced Level, students do Pure Mathematics One and Mechanics One, if their subject combination includes Physics. Those not doing Physics will do Pure Mathematics and Statistics One. They write Cambridge AS Level examinations at the end of Lower 6. In Upper 6 all students do Pure Mathematics Three. They then do Mechanics One or Statistics One depending on what they would have done at Advanced Subsidiary Level. The full Advanced Level course, therefore, constitutes the following: Pure Mathematics One and Three, Mechanics One and Statistics One.

Students are encouraged to apply themselves to their full potential so that they do not have to repeat AS examinations at the end of U6 as this brings a lot of unnecessary pressure on them.

### **Career Pathway**

Accountancy, Actuary, Computer Programming, Medicine, Engineering, Investment Management, Law, and Government Research Analysis

## **PRACTICALS DEPARTMENT**

### **Philosophy Statement**

Teach them His decrees and instructions and show them the way they are to live and how they are to behave. Exodus 18:20

Our vision as the Practical Subjects Department is to help students to develop and explore their God given talents through design work as they solve practical and technical problems in real life. Practical subjects are hands-on in nature and our vision is to impart various practical skills to pupils which they can use for life. We feel that it is also our mandate to transform the lives of the young ones and make them appreciate God's creative nature through teaching these practical subjects.

### **Art and Design (9704)**

**Contact Person:** Mrs H. Stone

### **Entry Requirements**

#### **Course Details**

The Art and Design syllabus considers expression and communication. Learners gain an understanding of visual perception and aesthetic experience, and the ways in which art and design creates a language of its own. Most of the work for this syllabus is practical or studio based, so that learners can develop their abilities of observation and analysis of the visual world, sensitivity, skill, personal expression and imagination. They also learn how to relate their skills to an enhanced knowledge of their own cultures, past and present, as well as an appreciation of practical design problems.

#### **Career Pathways**

Animation, Fine Arts, Media Studies, Interior Design, Architecture, Graphic Design, Fashion Design, Teaching/Lecturing, Interior Architecture,

### **Design and Technology (9705)**

**Contact Person:** Mr K. Mapungwana

### **Entry Requirements**

Grade B or better in Design and Technology at IGCSE/GCE Ordinary Level. However, hardworking student with a C could be considered

### **Special Requirements**

- Geometrical Set
- Beam Compass set/ Engineering set
- Drawing templates (Ellipse circle and nut)
- At least 3 Pencils 2 HB pencils and one 1H or 2H
- A3 Folder – minimum 30 pocket folder
- Coloured pencils/ Twisters
- French curves or Flexi curves
- Soft eraser



- Lap-top (i5 with min operation system of 8 Gig Ram, 64 bit, 256/512SSD) for Computer Aided Design)
- AutoCAD, Revit and Inventor will be installed by the school
- A3 portable drawing board.

### **Course Details**

This syllabus encourages learners to be innovative and creative and develop their ability to design high quality products. Through their studies, they will develop an awareness of the significance of design and technology on society, while also learning more about production processes and industrial practices. Learners will be encouraged to use ICT to build their design and technological abilities and develop critical evaluation skills which they can employ in a variety of technical, aesthetic, economic, environmental, social and cultural contexts. As a result, learners will also become discerning consumers of design and technology, able to make informed choices.

### **Career Pathways**

Architecture, Animation, Carpentry, Aerospace Engineering, Graphic Design, Teaching/Lecturing, Industrial Design, Interior Design, Civil, Electrical and Mechanical Engineering

## **Computer Science (9618)**

**Contact Person:** Mr J Tauya

### **Entry Requirements**

Grade C or better in IGCSE Computer Science and Mathematics.

### **Special Requirements**

- Laptop (i5 with min operation system of 8 Gig Ram, 64 bit, 256/512SSD): this will be an added advantage.

### **Course Details**

The aim of the Cambridge International AS and A Level Computer Science syllabus is to encourage learners to develop an understanding of the fundamental principles of computer science and how computer programmes work in a range of contexts. Learners will study topics including information representation, communication and Internet technologies, hardware, software development, and relational database modelling. As they progress, learners will develop their computational thinking and use problem solving to develop computer-based solutions using algorithms and programming languages. Studying Cambridge International AS and A Level Computer Science will help learners develop a range of skills such as thinking creatively, analytically, logically and critically.

### **Career Pathways**

Computer Programming, Software, Hardware and Networking Engineering and Systems Analysis

## **Digital Media & Design (9481)**

**Contact Person:** Mr J Tauya

### **Entry Requirements**

A minimum of a grade C in IGCSE English Language, a pass in Art, Design and Technology, Computer Science or ICT will be an added advantage. Students should be both committed to and passionate about the role of the media in society today and be prepared to challenge their own preconceptions about mass media.

### **Special Requirements**

- Lap-top (i5 with min operation system of 8 Gig Ram, 64 bit, 256/512SSD)
- It is advisable to buy a Digital Camera, at least 24.1 Mega Pixels (e.g. Canon EOS 250D ISO 25600, Nikon D5200), but students can use the school Camera

### **Course Details**

Digital Media & Design is a new addition to the Cambridge International creative subject suite. This syllabus is for learners who want to explore a range of processes and techniques in digital media. The subject content is grouped into three broad areas of study: digital photography, moving image through film and animation, and mobile and multimedia applications including games design.

Digital Media & Design helps learners develop knowledge and skills that will prepare them for further study and to work in a collaborative industry. They will develop an awareness of the world of digital media and design and the factors and contexts that influence these.

Learners will:

- develop creative processes and the ability to critically evaluate their work to continually review and refine ideas
- learn how to combine innovative approaches and techniques to solve problems creatively
- expand their knowledge of digital media by exploring different designers, processes and concepts.

### **Career Pathways**

Universities and employers recognise Cambridge International AS and A Level Media Studies as proof of knowledge and understanding of the media and its role in our daily lives. Successful candidates gain lifelong skills including: the ability to apply practical skills creatively, research and evaluation skills, information management and project management skills, the ability to analyse text and media products critically and the ability to reflect critically upon their own learning.

## SCIENCE DEPARTMENT

### Philosophy Statement

As a Science Department we pray that our students will be knowledgeable and able to apply their knowledge with integrity. We also pray that they will glorify God in all they do and have a saving Faith. *“It is my prayer that your love may abound more and more, with knowledge and discernment, so that you may approve what is excellent, and so be pure and blameless for the day of Christ, filled with the fruit of righteousness that comes through Jesus Christ, to the glory and praise of God” (Philippians 1:9).* We not only want to equip them to carry out their lives on earth to the glory of God, but also to be ready for the coming of God.

In our teaching we wish to give God the credit for his amazing creation and also for his grace and love in allowing us to be stewards of His creation. We acknowledge with humility that due to sin the earth is fallen and groaning away until the final day in which earth will be recreated. Until that time, God in his mercy reveals to us as scientists ways in which to cope with the fallen nature of creation. Scientific revelations such as machinery and medication (eg antibiotics) are part of his mercy.

We also wish to instil in our students their role as stewards of the natural environment. Ecology and conservation are part of our responsibilities. Students should also act as salt and light in this fallen world and show discernment in order to approve of what is right.

We also wish to create in our students Godly characteristics such as humility, thankfulness, integrity, mercy, courtesy, perseverance, obedience, self-discipline, patience and love not only for God but also for their fellow human beings. We pray that our students will not be self-seeking but do things in order to help humankind to the glory of God.

**Contact Person:** Mrs A. MacRobert

### Advanced Level Sciences

At Gateway High school we follow the syllabus aims as outlined by Cambridge in the following excerpts found below. However, we are unashamedly Christian in our worldview. We encourage our students to think ethically and give God the glory for the creation of the universe. We acknowledge that the laws of Physics are part of His order and the marvellous creation of life, as seen in Biology, are because of His spoken word and will. The molecular structures and the wonderfully created chemicals are of His design. He holds the universe together and we worship Him. We therefore need to acknowledge Him in all our ways.

### Biology (9700)

#### Entry Requirements

1. B or better in IGCSE/GCE Ordinary Level Biology
2. C or better in IGCSE/GCE Ordinary Level Mathematics
3. C or better in IGCSE/GCE Ordinary Level Chemistry or B in IGCSE/GCE Ordinary Level Physical Science

### **Course Details**

Cambridge International AS and A Level Biology builds on the skills acquired at Cambridge IGCSE (or equivalent) level. The syllabus includes the main theoretical concepts which are fundamental to the subject, a section on some current applications of biology, and a strong emphasis on advanced practical skills. Practical skills are assessed in a timetabled practical examination.

The emphasis throughout is on the understanding of concepts and the application of biology ideas in novel contexts as well as on the acquisition of knowledge. The course encourages creative thinking and problem-solving skills which are transferable to any future career path. Cambridge International AS and A Level Biology is ideal for learners who want to study biology or a wide variety of related subjects at university or to follow a career in science.

### **Career Pathways**

Biotechnology, Teaching/Lecturing, Microbiology, Nanotechnology, Ecology, Pharmacology, Research Science, Medical Fields, Soil Science and Zoology

### **Chemistry (9701)**

#### **Entry Requirements**

1. A in IGCSE/GCE Ordinary Level Physical Science
2. B or better in IGCSE/GCE Ordinary Level Chemistry
3. C or better in IGCSE/GCE Ordinary Level Mathematics

### **Course Details**

Cambridge International AS and A Level Chemistry builds on the skills acquired at Cambridge IGCSE (or equivalent) level. The syllabus includes the main theoretical concepts which are fundamental to the subject, a section on some current applications of chemistry, and a strong emphasis on advanced practical skills. Practical skills are assessed in a timetabled practical examination.

The emphasis throughout is on the understanding of concepts and the application of chemistry ideas in novel contexts as well as on the acquisition of knowledge. The course encourages creative thinking and problem-solving skills which are transferable to any future career path. Cambridge International AS and A Level Chemistry is ideal for learners who want to study chemistry or a wide variety of related subjects at university or to follow a career in science.

### **Career Pathways**

Medical Fields, Chemist, Dermatologist, Forensic Science, Chemical Engineering, Research and Food Science

### **Physics (9702)**

#### **Entry Requirements**

1. A in IGCSE/GCE Ordinary Level Physical Science
2. B or better in IGCSE/GCE Ordinary Level Physics
3. B or better in IGCSE/GCE Ordinary Level Mathematics

**Course Details**

Cambridge International AS and A Level Physics builds on the skills acquired at Cambridge IGCSE (or equivalent) level. The syllabus includes the main theoretical concepts which are fundamental to the subject, a section on some current applications of physics, and a strong emphasis on advanced practical skills. Practical skills are assessed in a timetabled practical examination.

The emphasis throughout is on the understanding of concepts and the application of physics ideas in novel contexts as well as on the acquisition of knowledge. The course encourages creative thinking and problem-solving skills which are transferable to any future career path. Cambridge International AS and A Level Physics is ideal for learners who want to study physics or a wide variety of related subjects at university or to follow a career in science.

**Career Pathways**

Civil, Electrical and Mechanical Engineering, Medical Fields, Chemist, Dermatologist, Forensic Science and Research

## **PHYSICAL EDUCATION DEPARTMENT**

### **Philosophy Statement**

Physical Education is taught as a vehicle through which learners come to acknowledge God's amazing Creation of the human body (Genesis 2:7, Psalm 139:14-16) by encouraging continuous development of the body's physical abilities (1 Corinthians 9:25). It thus provides a setting for teaching godly character, for instance, working as a member of a team, encouraging others, being gracious in victory or defeat and using one's talent to the glory of God (1 Corinthians 10:31). Learners are encouraged to take care of their physical bodies because God has designed the Holy Spirit to dwell within the body of the believer (1 Corinthians 6:19).

### **Physical Education (9396)**

**Contact Person:** Mr M. Chirume

### **Entry Requirements**

Grade B or better in Physical Education at IGCSE/GCE Ordinary Level.

### **Course Details**

The Physical Education syllabus is both practical and theoretical, covering anatomy and physiology, movement skills and contemporary studies in sport. Learners are encouraged to try out a range of physical activities, including team and individual sports, games, and outdoor activities, and then use the theoretical knowledge they have gained to analyse the different factors influencing performance. The course also encourages learners to understand and explain global trends in Physical Education and Sport.

The following activities are offered by the school:

- Track and field
- Swimming
- Life Saving
- Cross country
- Hillwalking (compulsory)
- Orienteering (compulsory)
- And various ball sports.

### **Career Pathways**

Physiotherapy, Sports Medicine, Biomechanics, Exercise Physiology, Coaching, Teaching/Lecturing, Human Kinetics, Sport Science, Strength and Conditioning, Sports Psychology, Sports Management and Sports Journalism

### **HAVE QUESTIONS?**

More information can be obtained from your current teachers, Form Teacher, Year Head, Head of Department, Academics Head and School Counsellors.

All teachers can be contacted by email using the following formula:

[initialsurname@gatewayhigh.co.zw](mailto:initialsurname@gatewayhigh.co.zw)

For more information, please contact;

**ACADEMICS HEAD**

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