



LOMAGUNDI COLLEGE
Sixth Form Prospectus
2020

GENERAL ADVICE AND GUIDANCE

The two years in the Sixth Form should be a time of deepening and widening academic abilities and personal preferences. It should be a time of exploration and discovery of oneself and how one will fit into a wider world. The more engaged and involved, the more the pupil will discover about him or herself and develop his or her 'personal skill set'.

Getting involved in sports, societies and activities such as debating, Toastmasters, public speaking, and taking on positions of responsibility, will all help to discover much about oneself and give a good start towards gaining skills that are essential in the world after school.

ADVICE TO THE PUPIL

To get your subject choices right, consider the following:

Try to keep your choices all together in 'Sciences', 'Arts', 'Technical' or 'Commerce'. Don't be too pressurized to know what career or what specific degree you will pursue. Develop an academic path that suits you best now because there are so many options and possibilities that will arise later. If you think you know the direction you want to take in life or with a career, make sure you have selected the right subjects for this. Talk early to the Careers Counsellor or the relevant universities concerning this, before or at the very beginning of Sixth Form. If you have a certain career goal and have the academic and financial means to achieve it, you are very fortunate.

Not many people know exactly what they want at this point in their lives and that is quite normal and acceptable. If this is the case, a reasonable general guide is that, after IGCSE

(‘O’ Level), you should continue with subjects you really enjoy or achieve the best results in. In general, a ‘B’ grade at IGCSE is the very minimum you should have to study a subject at a higher level. Parents and students together must take careful note that IGCSE results are a very good guide for selecting subjects. A ‘C’ grade at this level is a strong indicator that it is not the subject to be chosen for ‘A’ level.

When choosing a subject, do not be overly swayed by what your friends say or are doing. You are making decisions for your own interests, abilities and life. If there is conflict or disagreement between parents and the pupil concerning subject choices, get help. Talk to senior teachers or the Careers Advisor at the College or even see a specialist in education.

Also consider a College/TAFE/University of Technology option, the gaining of an industry- or skills-related diploma. There are many excellent opportunities in these tertiary facilities. Their training and skills development is very market-place oriented. Many school leavers, if not most, are far more suited to a college training than the more academically challenging requirements of a good university. ‘Employability’ after a college diploma or degree is always high and students may progress into university studies if they do well at a college. Some college options may be pursued after IGSCSE or AS levels have been achieved.

There are countless interesting and good earning opportunities in all fields to be found with a diploma start. (Including medicine, veterinary, engineering, design and business.)

Certain specifics to be aware of:

1. Medical fields (including veterinary) require three ‘A’ level sciences usually including Chemistry.
2. Engineering and similar courses require ‘A’ level Mathematics and Physics/Chemistry and one other.
3. 3. Agriculture requires Biology and Chemistry. 4. Most good business degrees require AS Maths or higher.

5. Architecture requires 'A' level Physics, and Art is a great advantage.
6. BA/BSocSci/Humanities are the least restricted degrees but a good command of the English language is essential, so good passes at higher levels are important.
7. **The following are currently not helpful to gain points for a university entrance in South Africa: Travel and Tourism, Physical Education and Applied Information Communication and Technology. They are all very helpful for enhancing an application when added to a set of already acceptable subjects.**

You must be willing to do a great deal of research for yourself, visit educational expos and attend talks by visiting speakers to gain enough knowledge to make good career path decisions. Much of this will be on the Internet. Also, there are many people who are willing to talk, discuss and advise, if you are willing to ask. Start with your parents and the College Careers Advisor and know that there are many others available.

A new addition in courses offered at the College, is AS Mathematics over a two year period. This has many advantages and is noted in detail in the Mathematics section. Business and Commercial students should consider this option, in particular.

LIFE OUTSIDE THE CLASSROOM

Membership of a cultural club, such as Choir, or Senior Debating Club, or participation in a dramatic production, or a Sixth Form Society committee is encouraged. Exclusive to the Sixth Formers are:

- Toastmasters
- Current Affairs
- Newspaper
- Functions
- Entertainment

- Service
- Newspaper

SPORT IN THE SIXTH FORM

As seniors, your commitment and dedication to sport is as important as it was before. Your involvement in sport sets the example to those below you, apart from providing a healthy balance to your life. Everyone has to play at least one sport each term.

DISCIPLINE AND BEHAVIOUR

All existing rules apply to the Sixth Formers. Lomagundi expects its Sixth Form pupils to conduct themselves in such a way that you:

- Demonstrate your consideration of visitors, fellow pupils and staff
- Display good manners at all times
- Show that you are aware of, and care for the environment.

As a member of the Sixth Form you are expected to set an example of behaviour and leadership for the rest of the school. More freedom comes with these responsibilities. The Sixth Form studies should be places where everyone can work and study, not a social gathering place!

DRESS

You are reminded to take care of your dress and personal appearance. Boys should be clean shaven and their haircuts short and neat. Girls' hair is expected to be kept in a manageable and hygienic state. No make-up or jewellery is allowed. All other existing rules apply.

On formal occasions Sixth Form boys will wear black trousers with black belts (no showy buckles) and white shirts. Sixth Form girls will wear black skirts, white shirts and sensible black court shoes. The School will specify designs.

DRIVING

Pupils who have a valid driver's licence and their parents' permission, may drive themselves to school. The School will require a certified copy of the licence and written permission from parents to support this privilege. Any inappropriate behaviour or reckless driving may result in this privilege being withdrawn.

Day-scholars may park only in designated areas; boarders at your hostels and keys to be handed in to your Housemaster/mistress. If you are giving another pupil a lift, written permission from both sets of parents is required.

POST IGCSE ENGLISH LANGUAGE

Being able to express yourself in English is a key to your A Level studies and is a pre-requisite to admission into most universities. For this reason, all pupils in their Lower Sixth year will take either:

- a) AS Level English Language.
- b) General Paper.
- c) Business English.

These courses will be further explained in the English Department section.

INDIVIDUAL SUBJECT INFORMATION

LOWER SIXTH SUBJECT CHOICES FOR 2018

PLEASE NOTE YOU CAN ONLY CHOOSE ONE SUBJECT FROM EACH GROUP

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6
PHYSICS	MATHEMATICS	CHEMISTRY	BIOLOGY	GEOGRAPHY	ENGLISH LAN.
BUSINESS STUDIES	HISTORY	COMPUTER SCIENCE	ART	FRENCH	GENERAL PAPER
PHYSICAL EDUCATION	T & T	ENGLISH LITERATURE	MEF	DESIGN & TECHNOLOGY	GENERAL PAPER
	METAL TECHNOLOGY		ACCOUNTS	TECHNICAL GRAPHICS	

ACCOUNTING

The A level Accounting syllabus will be examined over 2 years. AS level, consisting of 2 exam papers (Papers 1 + 2) will be written at the end of the first year. The A2 level, consisting of one exam (Paper 3) will be written at the end of the second year. The AS level exam is based on the 'core' content and the A2 level on the 'extended' content, the latter requiring a greater depth of understanding and application.

The AS level course builds on the IGCSE Accounting course, assuming a thorough knowledge of the IGCSE course and takes these topics to a deeper level. Two thirds of the course is Financial Accounting and the remaining third is the introduction of Managerial Accounting, focusing on Absorption Costing and Marginal Costing.

The A2 level course extends the above topics and introduces more Managerial Accounting and Cash Flow Statements. It is an excellent foundation for anyone wishing to study Accounting at University.

If you are looking for an easy A level option, this not the subject to choose. Therefore entry requirements need to be reasonably stringent. At least 5 good passes are required at IGCSE level, including English and Mathematics. A minimum of a B grade at IGCSE Accounting is essential. A pass in IGCSE Business Studies is also helpful, as there is a certain amount of overlap between the two subjects. Accounting pupils need to be numerate, logical and accurate. If you dislike working with figures, then this is not the course for you.

Care must be taken in your choice of combination of subjects. This is because more and more Universities are insisting on Mathematics at A level for pupils entering an Accounting degree. Business Studies is another possible subject that could be combined if you are intending to do a Commercial degree.

ART AND DESIGN

At Lomagundi College we offer Art and Design at AS and A Level. It teaches pupils how to communicate ideas visually, and gives them an opportunity to explore the creative side of their intellect. There are many Design-based careers on offer for those who love Art and opt to study this subject.

Those pupils who choose Art as a subject for A Level will be faced with a considerable amount of hard work, but they should find it enjoyable and very satisfying. A coursework folder, in the area of Painting and Related Media, will be produced in each year of study. In addition, a timed exam, referred to as a Controlled Test, will be done in Lower Sixth, and in Upper Sixth a Personal Study will be carried out. This involves a study of some local Artists, with reference to Historical Artists, where appropriate. Artists will be interviewed and their work discussed in a meaningful way. Pupils will learn how to assess paintings or other art work, and possibly make comparisons with their own work.

Pupils who opt to do A Level Art generally have a love for the subject, and, in most cases, thoroughly enjoy their time spent in the Art Room. In order to qualify for the A Level Art course, pupils should have achieved an A or B Grade at IGCSE.

BUSINESS

The A level Business syllabus will be examined over 2 years. The AS level, consisting of 2 exam papers (Papers 1 + 2) will be written at the end of the first year; the A2 level, consisting of another exam paper (Paper 3), will be written at the end of the second year. The AS level course builds on the IGCSE Business Studies course. This is based on the 'core' content. The A2 level is based on the 'extended' content, and takes many of the topics to a deeper level, as well as adding new material.

The Business A level exams are challenging, particularly Papers 2 and 3. These require a very good ability to write argumentative essays and be able to interpret data and apply the concepts to varied situations. Therefore entry requirements need to be at least 5 good passes at IGCSE level, including a minimum of a B grade at English Language, or a B grade in IGCSE Business Studies or Commerce. A pass in Mathematics is also essential; someone who has studied IGCSE Accounting would have a definite advantage. Good passes in English Literature and Geography would also be an added benefit. Business Studies students need to have a thorough command of the English Language and be skilled essay writers. If you dislike writing essays, then this is not the course for you. You also need to interpret figure work and be able to draw up graphs and charts.

The Business A level course is a good grounding for various Commercial degrees. Be aware that many of these degrees also require AS level Mathematics. These subjects could also be combined with a choice of Accounting, Geography, Travel and Tourism, English Language and/or Literature.

COMPUTER DEPARTMENT

ADVANCED LEVEL

The College runs a network of 72 Computers connected to the latest Clever boards to facilitate the learning process. The computers are housed in three computer rooms and are networked. They also have internet access, for the pupils to access online resources. The network is well secured by the use of the latest Cyberoam technology.

COMPUTER SCIENCE

Computer Science is offered to pupils according to their IGCSE foundation. Those who come with a pass in IGCSE Computer Science will qualify for AS Computer Science. Pupils with a grade 'B' or better pass in IGCSE

ICT and a good pass in IGCSE Extended Mathematics (NOT Core Maths) may be considered for AS Computer Science.

ICDL continues to be offered to those pupils who may have joined Lomagundi College from other schools to help them develop the necessary skills to be able to use ICT as a tool for their other subjects. Deserving pupils are allowed to bring their own laptops from home provided they complete the necessary indemnity forms.

The Department prepares pupils for life after Lomagundi College both in industry and tertiary education.

Computer Science is offered to pupils according to their IGCSE foundation. Those who come with a pass in IGCSE Computer Science will qualify for AS Computing Science while those with a pass in ICT at IGCSE will qualify for Applied ICT. A completed ICDL and a good pass in IGCSE Mathematics will be an added advantage. Applied ICT is not given points by Universities in South Africa (The Matriculation Board of South Africa) because it is not offered in South African schools. However, a student can be offered a place by a South African university based on the other A Level subjects they would have passed. Once a place is offered the student may proceed to study ICT with a very good foundation in the Applied ICT course.

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ENGLISH LANGUAGE

All post IGCSE pupils must continue with English Language.

As of 2020, the English Department will be offering two different syllabi at L6 as follows:

AS ENGLISH LANGUAGE 9093

This syllabus will be done by the top set. It aims at preparing learners for what they are going to face at university. It encourages them to be confident in working with information and ideas - their own and those of others, to be responsible for themselves, reflective, innovative and engaged intellectually and socially. In addition, learners who follow this syllabus will develop highly transferrable skills and understanding on how to sustain accurate, fluent and consistent writing, produce informed responses appropriate to the specified form, style, context, and audiences and convey knowledge and understanding from both specific examples and wider studies. Therefore, these skills and may help learners in other subject areas, as well as equipping them for higher education or employment. For those who are keen to proceed to Cambridge International A Level English Language, not only will they develop a strong foundation in the study of linguistics, but they will also focus on language change, child language acquisition, spoken language, English in the world, and language and the self.

AS ENGLISH GENERAL PAPER 8021

This syllabus will be taken by two sets: EGP1 and EGP2. The AS Level English General Paper course encourages learners to think critically about modern issues as a means of developing their skills in reading and writing. It also seeks to strengthen their ability to communicate in English. Their experiences in this course can help them become stronger critical readers, writers and thinkers. AS Level English General Paper is a skills-based course which can be transferred to most other academic fields learners are studying. Therefore, their learning

experiences can set a valuable foundation for their educational experience across all disciplines. Furthermore, the skills practised in this course such as developing own opinions and analyzing those of others, evaluating the quality, value or significance of ideas before judging them, making new insights and entering the academic conversation are extremely valuable because they are the ones that are required at university level, valued in the professional world, and necessary for citizens living in rapidly changing environments of the twenty-first century.

AS LEVEL FRENCH

French is widely spoken throughout the world and like English, it is taught in many countries. French gives access to the Francophone world and opportunities in education, business, the hotel industry, travel and tourism, the United Nations and non-government aid organisations.

AS level French is offered as a one year course. It is a challenging and interesting course, which enables the pupil to converse and debate in French on topics such as education, family relationships, sport, the environment and many other issues.

AS level French is recommended as a fourth subject option to those pupils who obtained an A or A* grade in French at IGCSE. The three exams consist of an essay, comprehension/summary/language work and an oral exam.

GEOGRAPHY

Pupils wishing to take Geography at A level should realise that the degree of difficulty at A level is a quantum leap from that experienced at IGCSE. This is why it is recommended to those who have gained an A grade at IGCSE; those with B passes can make the grade if they are prepared to apply themselves and work diligently.

A C grade pass at IGCSE is not good enough.

It is also preferred that pupils have a good pass in English Language and Literature. Candidates who have succeeded in the latter show they are capable of critical thinking, they can assess and be analytical.

In the AS year the syllabus covers Hydrology and Fluvial Geomorphology, Atmosphere and Weather, Rocks and Weathering on the physical geography side; and Population, Migration and Settlement Dynamics on the human geography side.

At year end, candidates write two papers as follows:

Paper 1 which forms 50% of the AS qualification and 25% of the A Level qualification. The Paper which is 1 ½ hours in duration and is worth 60 marks consists of Section A with 3 compulsory questions worth 10 marks each and Section B consisting of 3 structured questions, one from each Physical Geography core topic. Candidates answer one question from section B worth 30 marks.

Paper 2 which forms 50% of the AS qualification and 25% of the A Level qualification. The Paper which is 1 ½ hours in duration and is worth 60 marks consists of Section A with 3 compulsory questions worth 10 marks each and Section B consisting of 3 structured questions, one from each Human Geography core topic. Candidates answer one question from section B worth 30 marks.

Papers 3 and 4 are written at the end of the A Level year. The marks from all four papers are combined. In this, the A2 year, the entire examination is based on essay writing where clear English expression is sought by the examiners as well as an ability to show a great depth of reading and personal research.

At least two options have to be studied from each of the Advanced Physical and Human Geography sections. The physical options cover Tropical, Coastal, Hazardous and Arid environments, whilst on the Human side two options are chosen from Production, Location and Change; Environmental Management; Global Independence and Economic Transition.

The A level Geography course is a rewarding one which, it is hoped, will help the pupils become more World Wise.

MATHEMATICS

Many pupils cope with the IGCSE level syllabus reasonably well, but it does not fully challenge pupils to think to the degree that is required for A level. A deeper insight of mathematical problems and algebraic manipulation is a prerequisite for A level. The jump from IGCSE level to A level is very marked and even students who do well in their IGCSE level mathematics struggle with the concepts, theory and applications at A level.

The basic requirement to begin an A level course is a grade A at IGCSE. Lesser qualifications (i.e. grade B) may be considered, but it has been found that students who were not capable of an A grade at IGCSE, find the course increasingly difficult as time goes on and achieve, at best, a pass with a low grade.

AS level – If pupils have chosen to do Mathematics at A level, but fail their AS exam, they will not be allowed to continue to the second year of the A level course. They will need to repeat the AS course.

AS Mathematics over 2 years

Many tertiary courses rely on a deeper understanding of Mathematics. This course is intended for pupils who have worked hard to get at least a pass in IGCSE Mathematics but who would find the full A-Level Mathematics and even the AS course in one year too demanding. The idea is to cover the AS course (Pure Mathematics and Statistics) in two years, using 5 or 6 lessons per week to complete the course. Normally an AS level subject requires 8 periods per week for a year. **A minimum of a C grade pass in Extended IGCSE Mathematics is necessary.** If you are considering selecting this option please do ask your Mathematics teachers as many questions as possible to ensure that you are making a good decision. There is a minimum class size of 10 for the school to be able to offer this subject. If this option is chosen, the pupil will not be able to continue with the A2 syllabus if they pass in the May/June exams.

A level – The syllabus that we follow is made up of four papers: Pure 1, Pure 3, Statistics 1 and Mechanics 1. This gives the pupils a broad exposure to modern Elementary Mathematics and a good introduction to Mathematics at University level. The Pure 1 and Statistics 1 is covered at the AS level. If pupils want to improve on their AS grade they can repeat their AS in June or October of their second year. The Pure 3 and Mechanics 1 are then written at the end of the second year.

PHYSICAL EDUCATION (not recognized by South African Universities)

Curriculum content – The syllabus covers both the practical and theory aspects of Physical Education. Four components are completed in the two years of the full A level course (AS and A2). One component per year is practical coursework on any two chosen sports and is marked internally and standardised by the Cambridge International Examinations Centre. One written examination per year on three Physical Education sections completes the assessment. The practical component has a weighting of 30% and the theory component makes up the rest.

Basic Entry requirements – A pass in IGCSE Biology is required in addition to the general Sixth Form requirements. However, this is not a strict requirement as in the past we have had good passes from pupils who do not have IGCSE Biology. In addition, prospective pupils should be able to play at least two sports in different categories i.e. Athletics, Aquatic Sports, Invasion e.g. Soccer and Rugby, Combat, Court and Racquet Sports.

Career Prospects – The Sports Industry is fast growing and new careers keep coming up. This subject is useful for those wishing to study sports related sciences, Physiotherapy, Coaching as well as Sports and Recreation Management to name a few. In England, Physical Education, together with Mathematics, Biology and Chemistry are requirements to study Medical Sciences. Physical Education is a relatively new subject and South Africa does not have it on the list of prescribed subjects. However, world-wide, Physical Education has the same status as any other subject. A pupil of Physical Education at Lomagundi College is expected to be hard-working, innovative as well as passionate about Sports.

SCIENCE DEPARTMENT

Syllabuses and Examinations offered – Biology, Chemistry and Physics are offered as separate subjects at both AS and A level. The AS exams are written at the end of the Lower Sixth year. A pupil is required to pass the AS exam before being allowed to proceed to A level. Pupils with low grade passes will be allowed to proceed to A level, but they will be required to ‘repeat’ the AS exams in the May/June examination sessions.

Entry requirements – all A level science pupils need to be competent at Mathematics; a good pass at IGCSE Maths is therefore an entry requirement. Pupils wishing to study Biology need a minimum of a B grade; for

Chemistry a B grade is also needed and pupils wishing to study Physics should have an A grade and should also study at least AS Maths. In addition pupils should have good grades in IGCSE Biology, Chemistry and Physics. Occasionally we will allow a pupil with an A grade in Physical Science, to attempt A level Physics or Chemistry. Combined Science and Integrated Science do not provide sufficient depth and detail and a pass in these subjects does not meet the entry requirements.

Subject combinations – combinations with other science subjects and with Mathematics are preferred. Pupils writing A level Physics also need to study Maths to at least AS level. Pupils writing A level Biology will find it a distinct advantage to also study Chemistry to at least AS level.

Career prospects – Science subjects are needed in a wide range of careers in both the Pure and Applied Sciences. This includes agriculture, conservation, medicine and dentistry, food sciences, microbiology, engineering, astronomy, mining, crime detection, electronics and many more.

In addition, all three science subjects are educational in their own right; they impart transferable skills involved with analysis, evaluation and problem solving and are an excellent background for any career

COMPUTER AIDED DESIGN

Computer Aided Design (CAD) courses are also offered to students. These courses represent the theory and practice of Computer Aided Design. The courses include the basic of Technical Drawing on computers. Knowledge of CAD has become a basic requirement for most Engineering courses – Diploma, Degree or Certificate level.

Duration of the course is dependent upon the ability of the student spanning from 1st year to end of school days.

Assessment: The course has 3 basic levels, basic, intermediate and advanced level. At each level the student is expected to design a product, which they submit for assessment. Also they are expected to present their designs at an annual awards arena where their designs will compete with those from other centres.

Certification: Currently we are using Autodesk and are in the process of adding Revit to the courses. Pupils can take the courses from basic level to advanced level. Autodesk International with the assistance of Design Systems of South Africa provides certification.

Entry qualifications: Anyone from Form One to Upper Sixth can take up the course, though knowledge of Technical subjects is an added advantage. They also need to be self-motivated and able to work independently.

TRAVEL AND TOURISM DEPARTMENT (Not recognized by South African Universities)

Travel and Tourism is offered as an option at A Level. The Travel and Tourism industry is one of the most dynamic and competitive in the world. It is the world's largest and fastest growing industry with a huge economic contribution to the world's economy and generates a large number of **jobs** and **income** in local and international destinations. Travel and Tourism is a practical subject which teaches some technical skills, along with general skills such as organisation, problem-solving, communication, leadership and team work. A number of case studies, outside visits to tourism organisations and a wide use of the internet to keep abreast of changes in the fast growing industry, make this an interesting subject.

Entry requirements

Candidates beginning this course are not expected to have studied Travel and Tourism previously. An IGCSE pass in English Language is necessary and prior knowledge of Business Studies and Geography is advantageous.

Curriculum Content

Paper 1 The Travel and Tourism Industry (2 hours)

33% of the paper involves the features of the dynamic travel and tourism industry e.g. scale of the industry, factors affecting it, structure and subsectors of the industry as well as the principles of customer service.

Paper 2 Planning and Managing a Travel and Tourism event

17% of this is a coursework project which involves working in a team, choosing an event, producing a business plan for it; preparing for and running the event; evaluating it and making recommendations. Candidates work in a team but present their project individually.

Paper 3 Destination Marketing (1 hour 30 minutes)

25% of the paper focuses on tourism marketing, through market research and analysis, building a destination brand, establishing the destination identity, implementing and monitoring the effectiveness of the destination brand.

Paper 4 Destination Management (1 hour 30 minutes)

25% of the focus of this paper is on the organisations involved in destination management and the impacts of tourism development on destinations.

Subject Combination at A Level

Travel and Tourism can be taken as an option at A Level together with any of the following subjects; Business Studies, Geography, Accounting, Food Studies, Computer Science and Physical Education (for sports and tourism management).

Career Opportunities

The subject provides a suitable foundation for the study of Travel and Tourism, Hospitality, Events Management, Wildlife Management or related courses in higher education. Equally, it is suited for candidates intending to pursue careers or further study in Travel and Tourism.

Travel and Tourism graduates might work for a travel agency, airport or airline, transport company, tour operator, sports, events company, visitor attraction or in the public sector – roles here include tour guides, travel administrators, tourist information officers, holiday resort reps, human resources, marketing and sales managers, event organisers, education managers, customer service managers and hotel managers amongst many others.

A career in travel and tourism is one that can literally open up the world, especially if you want to combine your work with travel. This is an industry that will enable one to learn about and interact with people from a wide variety of cultures and lifestyles from around the globe. It is a subject recognized worldwide. However, South Africa does not list it as a prescribed subject.

TECHNICAL DEPARTMENT

DESIGN AND TECHNOLOGY

This has been one of the key Departments at Lomagundi College offering a wide variety of subjects from Form One up to Upper Sixth.

1. **DESIGN AND TECHNOLOGY:** This is offered at Form Three after the pupils have undergone basic training in Wood Technology, Metal Technology and Technical Graphics in Forms One and Two. They write IGCSE in Form Four or Form Five depending on which stream they have been placed after the Form Two Grading Tests. Areas covered in this subject include the basic design process from problem identification, realisation up to the final testing and evaluation of the manufactured product. Pupils may proceed with the subject into AS and A2 levels after successfully completing their IGCSE. Students who have studied Design and Technology have a solid foundation to enter into the vast range of design, creative and engineering professions after further Polytechnic or University specialisation studies.
2. **AS LEVEL :** Component 1. Common Core[compulsory] The Design Process: from the point when a problem is identified, to the conception of a solution, to the realisation and evaluation of the designed product. A three hour paper is written at the end of the year. Component 2: This is a coursework project done over 40-50 hours[about two school terms]. There is a choice of three questions from which to choose one. Pupils also undergo theoretical and practical instruction in Product Design, Graphic Products Technology and Practical Technology competencies throughout the course.
3. **A Level:** Component 3. This is a three hour paper written at the end of the year. There is also a Paper Four. This is a coursework component which also includes the designing and realisation of a product after creating a situation or problem.
4. **WHO CAN DO A LEVEL DESIGN AND TECHNOLOGY:** Any pupil who has successfully passed the subject at IGCSE level with a 'B' grade or better. Pupils who have passed 'O' level Metal Technology and Design or Wood Technology and Design or Technical Graphics and Design with a 'B' or better grade are also welcome to take up this programme.

METAL TECHNOLOGY AND DESIGN

This subject is available from Form Two up to Upper Sixth. The subject covers all basic workshop technology in areas such as workshop safety, bench work processes, turning, milling, shaping, forging, drawing and designing and manufacturing given or own designed products. Pupils undergo a three year teaching and training programme which culminates with the writing of ZIMSEC 'O' level exams. The exams comprise of: A Paper three design and realisation project done over two terms, then a three hour theory, drawing and design paper and also a three hour practical exam.

POST 'O' level studies: Pupils who have successfully passed with a 'B' grade or better at 'O' level can proceed to do the CITY AND GUILDS MECHANICAL ENGINEERING[Manufacturing Technology] Level 2 Course over a period of two years. The same group also do the Local National Foundation Certificate in Machine shop Engineering. These two are polytechnic courses which pupils can latter on use to secure university places all over the world or go to local and international polytechnics to do the higher diplomas up to BSC in Mechanical Engineering. Holders of these qualifications are at Malaysian, Canadian, Australian, Chinese and many more Universities undergoing training in Mechanical, Civil, Automotive and many other related fields. Some have diversified into apprenticeship in Diesel Plant Fitting, Aircraft Engineering and Deep Sea Diving and Welding. The list is endless. Companies like Bell, Goddard, John Deer, Pioneer and many more have taken our past pupils for apprenticeship training and our products have proved to be a cut above many.

OTHER COURSES:

The Lomagundi College Metal Technology and Design Teacher in conjunction with the WELDING SKILLS CENTRE of NO 47 Coventry Road Harare, are running professional industrial welding courses for our pupils in GAS, ARC, MIG and TIG. We have several current and past pupils who have done the welding courses up to coded welder level examined and certified by the Standards Association Of Zimbabwe. These courses have made immense

differences in the lives of these pupils across the globe. Any pupil who wishes to go the technical world is advised to go through this department.

TECHNICAL GRAPHICS AND DESIGN AND TECHNICAL DRAWING :

These are key subjects which form a solid foundation for every technical studies pupil from high school up to University. Any technical operative without a basic understanding and application of these subjects is like a half-baked cake. Technical Graphics is offered to all Form Ones to give them an insight and good grounding in basic line work, pictorial drawing, orthographic drawing, graphic product origination and finish applications. Pupils who choose to do this subject at Form Three proceed to write it at 'O' Level under ZIMSEC- the local examining body. After 'O' Level, pupils who pass with an 'A' or 'B' Grade may proceed to study 'A' Level Technical Drawing majoring in Geometrical and Mechanical Drawing or Geometrical and Building Drawing. Past pupils who have successfully completed this course have proceeded to do Architecture, Mechanical, Civil and Electrical Engineering at various Universities and Polytechnics at local and international Universities. Some have gone the apprenticeship way specialising in Draughting and Designing at National Certificate up to the Higher Diploma Level.

COMPUTER AIDED DESIGN

This programme is at the moment being offered by AUTODESK to our current Form Ones and we hope to extend it to other Forms in the near future. Pupils write an exam administered by Autodesk and the successful candidates are awarded certificates. A sound knowledge of CAD has become a basic requirement for all Engineering programmes at most Polytechnics and Universities world wide. We also run a very popular CAD Club within the Technical Drawing portfolio and the members pay an exam fee to Autodesk for certification upon the successful completion of each module. Any pupil from Form One to upper sixth is free to be a Club member.

WOOD DESIGN AND TECHNOLOGY

Currently, all Form Ones do the subject and they are inducted in basic workshop safety, hand tools selection, use, care and basic maintenance. The practical work involves the designing and making of common home and garden artefacts which include cell phone stands, book racks, trays, jewellery boxes and many others. The syllabus at this level gives the pupils a very solid foundation for the highly skills demanding post Form One Levels of study. If pupils choose the subject at Form Three they embark on the 'O' Level syllabus which comprises of three examinable components being a three hour theory paper, a three hour practical exam and a coursework project done over two terms. This is a local syllabus which is examined by ZIMSEC.

Pupils who wish to carry on with this subject after 'O' Level can study it at 'A' Level. The 'A' Level syllabus is more complex and very demanding in theory, practical work, drawing and designing. Most of the work is at industrial level and it involves the use of circular saws, thicknesses, planers, mortising machines, band saws and many other related skills. A pupil who has gone through this syllabus can easily start an own cabinet making venture or proceed to undergo apprenticeship training in related fields or take wood related courses at University. Pupils may also do post 'O' Level Vocational courses examined by HEXCO in Wood Machining and Cabinet Making at National Foundation Certificate or National Certificate Level.

FROM THE HEADMASTER

Dear Parent/Guardian and Pupil

Sixth Form subjects must be chosen very carefully. Parents please note that these decisions should be made based on your son or daughter's IGCSE results and their own preferences, not yours. Your child will be more motivated if able to choose subjects that he or she enjoys. On many occasions pupils have been forced to do subjects in which they have no interest and at the end of their Lower Sixth year have failed dismally because of a lack of motivation and ability. This makes progress to tertiary education much more difficult and uncertain. I trust you will find this prospectus informative and helpful with these very important subject choices.

Yours sincerely
Mr. D. Seeliger



TABATANA