LYTTELTON MANOR HIGH SCHOOL

GRADE 10 SUBJECT CHOICE

INFORMATION BROCHURE

2021

1. GENERAL INFORMATION

1.1 SCHOOL PHASES

1.1.1 **General Education and Training Phase:** (Grades 7, 8 and 9)

It is compulsory for all children in South Africa to attend school until the end of their Grade 9 year. The curriculum consists of nine compulsory subjects (English Home Language, Afrikaans First Additional Language, Mathematics, Life Orientation, Creative Arts, Technology, Social Sciences, Natural Sciences, Economic and Management Sciences).

1.1.2 **Further Education and Training Phase:** (Grades 10, 11 and 12)

A learner may choose:

To remain at school and follow an academic path. The curriculum consists of four compulsory subjects and three optional subjects. The choice of subjects must be made by the school, parent and learner. The National Senior Certificate, obtained at the end of Grade 12, is registered as a level 4 qualification on the NQF (National Qualifications Framework).

OR

To enrol for a vocational programme at a FET college. The National Certificate (Vocational) gives learners a vocational alternative to an academic Grade 10 to 12 by offering industry-focused training on NQF levels 2 - 4.

1.2 PROMOTION REQUIREMENTS IN GRADES 10, 11 AND 12

The following rating scale is used to reflect the achievement level obtained by a learner in a subject:

Achievement level	Marks
7	80% - 100%
6	70% - 79%
5	60% - 69%
4	50% - 59%
3	40% - 49%
2	30% - 39%
1	0 - 29%

In order to be promoted in Grade 10, 11 and 12, a learner must fulfil the following minimum requirements:

40% in English Home Language.
40% in two other subjects.
30% in three other subjects.

1.3 THE NATIONAL SENIOR CERTIFICATE (AWARDED AT THE END OF GRADE 12)

1.3.1 Promotion requirements:

A National Senior Certificate will be issued to a candidate who has complied with the following promotion requirements at the end of Grade 12:

40% in English Home Language.
40% in two other subjects.
30% in three other subjects.

1.3.2 Types of National Senior Certificate:

Based on academic achievement, a learner is issued with one of the following National Senior Certificates. The type of National Senior Certificate issued is indicated by an endorsement. The endorsement indicates what type of qualification the learner can enrol for after school.

The learner can enrol for a higher certificate after school:

Minimum requirement:
National Senior Certificate

Endorsement:
The candidate is awarded the National Senior Certificate and has met the minimum requirements for admission to a higher certificate.

The learner can enrol for a higher certificate and/or diploma after school:

Minimum requirement:
National Senior Certificate
An achievement rating of 3 (40% - 49%) or better in FOUR subjects (20-credit subjects), i.e. Life Orientation excluded

Endorsement:
The candidate is awarded the National Senior Certificate and has met the minimum requirements for admission to a diploma or higher certificate.

The learner can enrol for a higher certificate, diploma and/or bachelor's degree after school:

Minimum requirement:
National Senior Certificate
An achievement rating of 4 (50% - 59%) or better in FOUR subjects (20-credit subjects), i.e. Life Orientation excluded.

Endorsement:
The candidate is awarded the National Senior Certificate and has met the minimum requirements for admission to a bachelor's degree, diploma or higher certificate.

All universities, however, have specific requirements that must be met before admission to a course is permitted, e.g. the APS, compulsory subjects and/or entrance tests. Parents and learners should be fully aware of these university requirements.

1.3.3 **The Admission Points Score (APS):**

Universities require a minimum APS in order to register for a qualification. The APS needed depends on the course of study.

To calculate the APS, use the achievement level received for each subject. (Please note: Life Orientation is EXCLUDED when calculating the APS.)

Please refer to the example given in the table below:

Subject	Mark	Achievement level
English Home Language	58%	4
Afrikaans First Additional Language	55%	4
Mathematics	72%	6
Physical Science	75%	6
Life Sciences	82%	7
Accounting	45%	3
		APS 30

2. THE GRADE 10 SUBJECT CHOICE

The information that follows pertains to subject choices in Grades 10 - 12.

2.1 **Subjects:**

In order to obtain the National Senior Certificate in Grade 12, learners must enter for/offer **SEVEN** subjects - four compulsory and three which are chosen at the end of Grade 9 for Grades 10 - 12.

The subjects in the FET have been divided into two groups, namely **Group A** (four compulsory subjects) and **Group B** (choice subjects, of which any three can be chosen).

The table below indicates the Groups and Subjects:

GROUP	SUBJECT
A Compulsory subjects	English Home Language
	Afrikaans First Additional Language
	Mathematics **OR** Mathematical Literacy
	Life Orientation * (This is a 10 credit subject)

GROUP	SUBJECT
B Choose 3 subjects	Physical Sciences
	Life Sciences
	Accounting
	Business Studies
	Information Technology
	Computer Applications Technology
	History
	Geography
	Dramatic Arts
	Visual Arts
	Consumer Studies
	Engineering Graphics and Design

Please take note of the following recommendations that must be met at the end of Grade 9 if any of the subjects listed below are chosen in Grade 10:

SUBJECT TO BE TAKEN IN GRADE 10	RECOMMENDATIONS TO BE MET AT END OF GRADE 9
1. Mathematics	40% in Mathematics (see below)
2. Information Technology	Access to a computer and wifi at home 50% Mathematics
3. Accounting	50% in Mathematics
4. Dramatic Arts	60% in English Home Language and selection process
5. Physical Sciences	50% in Mathematics
6. Engineering Graphics and Design	50% in Mathematics
7. Visual Arts	Selection process

Please take note that to register for Physical Sciences, it is essential to register for Mathematics and NOT Mathematical Literacy.

The final promotion mark will be used to determine final subject choice, as these results give an accurate reflection of the learner's academic performance.

Learners wishing to register for Dramatic Arts and Visual Arts will be required to complete a practical and show competence in the subject in order to gain admission to these subjects.
Due to the nature of the subject, learners wishing to take CAT or IT should have access to their own personal computer and internet access to work at home.

2.2 **Changing subjects in the FET band:**

The learner may only change subject(s) **ONCE in the FET phase**. Please note that candidates offering Physical Sciences may not change Mathematics to Mathematical Literacy.

3. PROMOTION REQUIREMENTS (GRADE 9)

In order to be promoted in Grade 9, a learner must fulfil the following requirements:

50% in English Home Language.

40% in Afrikaans First Additional Language.

40% in Mathematics.

40% in three other subjects.

30% in two other subjects.

4. CONCLUSION

The Grade 10 subject choice is an extremely important issue. This is the first step in determining the learner's career path. It is, therefore, imperative that the parents and the School form a close partnership in order to make the best possible choice for the learner.

FURTHER EDUCATION AND TRAINING

Group A: Compulsory Subjects

ENGLISH HOME LANGUAGE

As the Home Language, English facilitates thought and communication. Language enables learners to think, acquire knowledge, to express feelings and to relate to others.

English as a subject comprises language skills; oral and written communication; exploration of texts from different sources; investigation of literature from South Africa; film and multimedia.

Possible careers:
General language practitioner, translator, editor or proofreader, language adviser, teacher, interpreter, public relations practitioner, media liaison officer, communication officer, journalist, guidance counsellor, life skills facilitator, publicist.

AFRIKAANS FIRST ADDITIONAL LANGUAGE

In a multilingual country like South Africa it is important that learners should have a high level of fluency in at least two of the eleven official spoken languages. Regulation requires learners to study a home language and at least one other official additional language; Afrikaans is the additional language offered at Lyttelton Manor High School.

Afrikaans as a subject comprises language skills; oral and written communication; exploration of texts from different sources; investigation of literature from South Africa; film and multimedia.

Emphasis is placed on listening, talking in formal and informal situations, reading and writing.

Possible careers:
Language teacher, translator, language practitioner, journalist.

MATHEMATICS

Mathematics is about logical reasoning and problem solving and it enables us to understand the world and make use of that understanding in our daily lives. In Mathematics we observe patterns, we investigate, we solve, calculate and prove ... most important, we learn to think logically! Mathematics is a discipline in its own right and pursues the establishment of knowledge without necessarily requiring applications in real life. Mathematics ensures access to a variety of career paths and it is essential to take Mathematics if you intend to pursue a career in the physical, mathematical, computer and economical sciences. Those of you who want to study further at institutions of Higher Education should be mathematically literate.

Possible careers:
Teacher, medical doctor, physicist, pharmacist, actuarial scientist, engineer, astrologist, astronomist, technician, IT industry, architect, civil engineer, electronics industry, town planner, pilot.

MATHEMATICAL LITERACY

Mathematical Literacy provides you with an understanding of the role that Mathematics plays in the modern world. It is a subject driven by life-related applications of Mathematics. It enables you to develop the ability and confidence to think numerically in order to interpret and analyse everyday situations and make more informed decisions as responsible citizens. Learners who take Mathematical Literacy will be provided with opportunities to engage with real life problems in different contexts and so to extend basic mathematical skills, for example to read a map, estimate volumes and areas, understand house plans, inflation and tax, read graphs and diagrams and deal with work-related formulas. This subject enables a person to be self-managing and be a contributing worker at a workplace. Mathematical Literacy should not be taken if you intend to study disciplines which are mathematically based, such as engineering.

Possible careers:
Teacher, bricklayer, welder, plumber, bookkeeper, sales executive, journalist, social worker, chef, business manager, ceramicist, fashion designer, caterer.

LIFE ORIENTATION

Life Orientation is a key subject for creating a society based on respect for democracy, equality, the dignity of people and social justice - that is why it is a compulsory subject. This subject will develop knowledge, values, attitudes and skills to “know” yourself well enough to make informed decisions about further study, career fields and your own career path. It also helps you to understand what it means to be a good and responsible citizen and will teach you about the values that underpin South Africa’s Constitution, the highest law in the land.

Group B: Choice Subjects

ACCOUNTING

It is recommended that a learner should pass Mathematics with at least 50% in Grade 9 in order to register for Accounting in Grade 10.

A learner who registers for Accounting must register for Mathematics in Grade 10, 11 and 12.

Accounting focuses on measuring performance, and processing and communicating financial information about economic sectors. This discipline ensures that principles such as ethical behaviour, transparency and accountability are adhered to. It deals with the logical, systematic and accurate selection and recording of financial information and transactions, as well as the compilation, analysis, interpretation and communication of financial statements and managerial reports for use by interested parties. The subject encompasses accounting knowledge, skills and values that focus on the financial accounting, managerial accounting and auditing fields.

Possible careers:
Financial accounting, auditing, financial management, management accounting, tax consultant, teacher.

BUSINESS STUDIES

The subject Business Studies deals with the knowledge, skills, attitudes and values critical for informed, productive, ethical and responsible participation in the formal and informal economic sectors. The subject encompasses business principles, theory and practice that underpin the development of entrepreneurial initiatives, sustainable enterprises and economic growth. Learners will acquire essential business knowledge, skills and principles to productively and profitably conduct business in changing business environments.

Possible careers:
Entrepreneur, consultant, business management, insurance, office management, marketing and sales, teaching profession**.**

COMPUTER APPLICATIONS TECHNOLOGY

CAT teaches learners to effectively use information and communication technologies in an end-user computer applications environment in different sectors of society. Through this subject the learners get a clear understanding of different concepts of computing such as hardware, software, computer management, basic networking concepts, Internet and the world-wide web, e-communication and the impact of computers on society, our health and the environment.

CAT focuses on the Microsoft Office 2013 suite with an in-depth study of MS Word, Excel, Access and Power Point, as well as web development using HTML.

Access to a computer is essential.

Possible careers:
Database administrator, secretary, teacher, computer technician, trainer, data capturer, web designer.

CONSUMER STUDIES

This is an exciting subject that covers a wide spectrum of topics, from law, preparation of delectable dishes, beautifying a home, selection of modern food preparation equipment to nutrition and food-related diseases. It gives the students an in-depth knowledge of the total package of running a home and/or a business, be it knowledge of textiles or nutritional requirements of any person of any age, status, religious group and physical ability.

Possible careers:
Hotel and restaurant services and management, small business - food production, teaching profession, catering, catering equipment sales and rentals, Department of Labour - Labour Law, baking industry, e.g. bread making, dairy industry, e.g. cheese making, training of house workers, waitressing and butlers, interior decoration, dieticians and nutritionists.

DRAMATIC ARTS

It is recommended that a learner should pass English Home Language with at least 60% in Grade 9 in order to register for Dramatic Arts. The learner will be required to complete a practical and show competence in the subject in order to register for Dramatic Arts.

Wake up your body and mind and let's play! Are you a writer in hiding? Do you recite poetic verses to yourself in the mirror?

Drama is a social art form which integrates aural, visual, physical and performance elements to communicate, explore, reflect on and enhance human experience. The subject develops confidence, creativity, problem-solving and communication skills.

Possible careers:
Teaching, preaching, law, psychology, public relations, social services, state, television, video, radio, film, theatre design and costumes, therapists and journalists.

ENGINEERING GRAPHICS AND DESIGN (EGD)

It is recommended that a learner should pass Mathematics with at least 50% in Grade 9 in order to register for EGD in Grade 10.

EGD focuses on geometrical construction, isometric drawings, mechanical drawings, civil floor plan and sectional elevation, as well as loci and 20 point perspective drawings.

Possible careers:
Engineer, architect, draughtsman, graphic designer, fashion designer, jewellery designer, interior designer.

GEOGRAPHY

Geography is the study of the human and physical environment. It examines the spatial distribution of people and their activities, and the interaction between humans and their environment. Geography helps us to understand our complex world. It enables us to explain processes and spatial patterns, to make well-informed judgements about changing environments and contexts, to think more critically about what it means to live sustainably, to recognise how values and attitudes influence and affect the environment, and to apply a range of geographical skills and techniques to issues and challenges in a rapidly-changing world.

Geography offers a bridge between the human and physical sciences. In Human Geography we study population, development, rural and urban settlements, resource utilisation and economic activities. In Physical Geography we study the Earth - weather and climate, cyclones, global air circulation, the oceans, river systems, soils, ecosystems and natural disasters. In our study of Geography we learn to use atlases and different types of maps, aerial photographs and geographic information systems.

Possible careers:
Meteorology, town planning, geology, environmental management, soil sciences, GIS practitioner, education, development studies, cartography.

HISTORY

History is a process of enquiry into past events leading to the writing of history. History trains learners to identify and extract relevant information from authentic historical sources, analyse and organise that information and present and defend an argument based on the information gained during the process of enquiry.

Learners will be guided to think independently without jumping to unsupported conclusions. Confidence in their own judgement will be nurtured and learners will have the ability to defend an adopted position. By its very nature, history teaches young people the critical skills and

thought processes crucial to becoming responsible citizens in a democracy. Content plays an extremely important role in History.

The core to History is the process of enquiry, knowledge, construction and the communication process. Aspects of these will be used in all work done in the History classroom. The History content focuses on investigation and indicates the kind of questions we need to ask about the past as it deals with concepts, power relations and interpretation. The topic of Heritage provides scope for practical investigations of heritage in all communities and situations.

Possible careers:
Law, teacher, analyst, museum curator, archaeologist, palaeontologist, researcher, editor.

INFORMATION TECHNOLOGY

Information Technology focuses on the development of application software using Delphi 10 (programming language), object-orientated programming and database design integrated with Delphi.

The subject develops an understanding and knowledge of networks, e-communication, hardware and software, computer management, Internet and the world-wide web, Internet services, social implications and cloud computing.

Access to a computer and internet at home is essential.

Possible careers:
Programmer, engineer, teacher, SQL server specialist, network specialist, any IT-related profession.

LIFE SCIENCES

Life Sciences is one of the largest and most important branches of science. The subject includes zoology (the study of animals); botany (the study of plants); microbiology (the study of micro-organisms); evolution (that life is not deliberately designed but rather evolves incrementally through random mutations and natural selection); ecology (the study of living organisms and the environment); and physiology (the study of the human body - cells, tissues, organs and systems such as the circulatory system, digestive system and skeletal system). Learners conduct research, investigations, practical investigations, dissections, and get to use equipment such as microscopes, scalpels, chemicals and specimens.

Possible careers:
Health professions (medicine, psychiatry, dentistry, veterinary science, pharmacy and nursing).

Health and rehabilitation sciences (physiotherapy, radiography, occupational therapy, audiology, dietetics and nutrition, primary health care, community health, maternal and child health, forensic science, speech therapy, chiropractic, homeopathy, healthcare technology, occupational health, palliative medicine, sports medicine, emergency medical care, and the teaching profession).

Science and computer-related fields (archaeology, astronomy, bioinformatics, biotechnology, botany, zoology, chemistry, physics, demography, ecology, geology, hydrology, information technology, statistics, soil science, environmental science, marine biology, ocean and

atmospheric science, biochemistry, biotechnology, human biosciences, microbiology, entomology, and ichthyology).

PHYSICAL SCIENCES

It is recommended that a learner should pass Mathematics with at least 50% in Grade 9 in order to register for Physical Science.

A learner who registers for Physical Sciences must register for Mathematics in Grade 10, 11 and 12.
In Physical Sciences learners study a large variety of topics, such as radioactivity, mechanics, light, sound and wave motion, electricity and the structure of matter. Chemistry involves learning about reactions such as acid-base titrations, Redox reactions or electro-chemistry and reactions involving organic compounds. We also study the Science involved in the atmosphere and lithosphere, the water cycle, global warming and energy resources, as well as various mining processes.

Possible careers:
Medical field: Medicine, psychiatry, dentistry, veterinary science, physiotherapy, dietetics, nutrition, forensic scientist, sport medicine, etc.

Science and computer related fields: Engineering, biochemistry, microbiology, astronomy, bio-informatics, information technology, marine biology, statistics, teaching.

VISUAL ARTS

The learner will be required to complete a practical and show competence in the subject in order to register for Visual Arts.

Visual Arts is the study of creative practices that involve the hand, the eye, the intellect and the imagination in conceptualising and creating two-dimensional and three-dimensional objects and/or environments which reflect the aesthetic, conceptual and expressive concerns of the student and the use of all the different creative skills - painting, drawing, installation art, etc.

Possible careers:
All design and art fields, fashion design, industrial design, graphic design, interior design, textile design, fine art, jewellery design.

Skills / Interests related to NSC Subjects	
NSC Subjects	**Ideal strengths, interests and personality traits**
Accounting, Business Studies, Computer Applications Technology, Information Technology, Mathematics, Mathematical Literacy	Methodical, logical, neat, number orientated; enjoys numbers, systems and order; has an interest in business and the economy of the country and of the world.
Engineering Graphics and Design	Methodical, logical, neat, number orientated; enjoys numbers, systems and order; practical and good with their hands. Can make and build things.
Consumer Studies	Enjoys serving and has the ability to understand people. Enjoys cooking, organising and travelling. Methodical and can work with systems and order.
Dramatic Arts, Visual Arts	Creative, original and confident. Can work independently. Able to express themselves in words or other creative ways.
Life Sciences, Physical Sciences	Able to analyse and understand systems and patterns, ability to research, ability to memorise knowledge, fact and theory and apply them. Interested in the world, how things work and have a natural curiosity in scientific things.
Geography, History, Life Orientation	Interested in people, the world, their culture and the environment. Can read, interpret, research, analyse and write well. Able to consider and evaluate the opinions of others.

SUBJECTS IN GRADES 10, 11 AND 12

It is impossible to predict fully what your career path will be in four years' time. Even if you are sure that you have chosen the right path now, you could change your mind. You might also need to change career direction as the job market changes.

It is sensible to choose subjects that will allow you to follow several career fields or study a wide range of courses at the tertiary level.

Degree / Area of study	**Subjects needed for university admission**
Accounting, Business, Commerce, Economics	Mathematics is the general requirement. Courses like Business Science or Actuarial Science require high levels of achievement in Mathematics.
Agriculture, Dietetics, Sciences	Mathematics, Physical Sciences and Life Sciences OR Mathematics and Physical Science, OR Mathematics and Life Sciences, depending on specialisation fields.
Architecture	Mathematics or Mathematics and Physical Sciences.

Art, Dance, Drama, Film and Media, Journalism, Law, Music, Politics, Psychology, Social Work, Teaching, Theology, Translation	No specific subjects are required. Performance studies will require an audition. Portfolio of work and/or an evaluation test are sometimes required. Language achievement must be at least level 4 and 5 for some courses.
Dentistry, Medicine, Nursing, Occupational Therapy, Optometry, Pharmacy, Physiotherapy, Speech-Language & Hearing Therapy, Veterinary Science	Mathematics, Physical Sciences and Life Sciences OR Mathematics and Physical Sciences, OR Mathematics and Life Sciences, depending on the course. Levels of competition are high. It is best to take all three subjects: Mathematics, Physical Sciences and Life Sciences and score level 7s, especially for Medicine and Physiotherapy.
Engineering	Mathematics and Physical Sciences

NSC Subjects	**Occupation**
Accounting, Business Studies, Computer Applications Technology, Information Technology, Mathematics	accountant, business person, estate agent, salesperson, teller, auctioneer, marketer, financial advisor, bank teller, bookkeeper, cashier, mathematician, quantity surveyor, statistician, actuarial scientist, economist, appraiser (assessor), auctioneer, auditor, retail buyer cashier, chartered accountant, chartered secretary, project manager, computer systems analyst, credit controller, garage manager, human resources manager, market researcher, public relations practitioner, switchboard operator
Engineering Graphics and Design	blacksmith, carpenter, jeweller, locksmith, mechanic, plumber, welder, engineer, electrician, architect, ship builder, aeronautical engineer
Consumer Studies	chef, guest house manager, hotel manager, waitress, food writer, recipe developer, dietician, nutritionist, caterer, child-minder, dress designer, dressmaker, interior designer, decorator, housekeeper
Dramatic Arts, Visual Arts	animator, architect, artist, fashion designer, film maker, graphic artist, hairdresser, interior decorator, jeweller, make-up artist, photographer, broadcaster, editor, actor, comedian, dancer, disc jockey, mime artist, sound engineer, voice coach, colour consultant
Life Sciences, Physical Sciences	environmental consultant, physiotherapist, occupational therapist, dentist, detective, engineer, microbiologist, pharmacist, doctor, inventor, scientist, game ranger, gardener, nurse, psychologist, biomedical engineer, dermatologist

Geography, History	geologist, meteorologist, fire-fighter, game ranger, gardener, teacher, adventure sports instructor, HIV and Aids counsellor, lawyer, nurse, psychologist, astronomer, map maker, archaeologist, palaeontologist, museum curator, environmental consultant, GIS practitioner