

Grade 9 Subject Choices

25 APRIL 2023





Importance of correct subject choices.

- The subject choice at the end of Grade 9 could determine the field of study learners can follow once they complete school. In other words, if learners do not select the correct combination of subjects, they could find themselves unable to enter certain higher or further education programs.

Think before you pick.

- Be Realistic.
- Think about your desired career choice..
- Consider your aptitudes.
- Why are you picking the subject?
 - Is it for your future or for your friends.
- Do not underestimate a subject.

Quote:
If you judge a fish by
its ability to climb a
tree, it will spend its
whole life thinking it
is stupid.

Pass requirements for FET



What do I need to pass Grade 10,11 and 12

Higher Certificate Pass	Diploma Pass	Bachelors Pass
This will allow you to study towards a Higher Certificate at a public TVET College or a Private College. Pass 6 of your 7 subjects: • Obtain at least 40% for your Home Language • Obtain at least 40% for 2 other subjects (excluding Life Orientation) • Obtain at least 30% for 3 other subjects.	This will allow you to study towards a Diploma at a University of Technology. Pass 6 of your 7 subjects: • Obtain at least 40% for your Home Language • Obtain 40-49% (moderate achievement) in 4 other subjects (excluding Life Orientation) • Obtain at 30% in 3 other subjects.	This will allow you to study towards a degree at University. • Pass 6 of your 7 subjects • Obtain at least 40% for your Home Language • Obtain at least 50% in 4 subjects (excluding Life Orientation) • Obtain at least 30% in 2 other subjects.

Keep the following in mind.

- A learner needs to PASS the subject in Grade 9 to continue the subject in Grade 10.
- Take in to consideration the requirements for your desired field of tertiary study.
- Mathematics is compulsory with Physical Science.
- At least 50% in grade 9 mathematics is required for you to be able to take mathematics in grade 10.
- Cannot change from Mathematical literacy to mathematics.
- Cannot change to physical science.
- Pick subjects with aspects in common.



Subject composition.

Compulsory subjects (4 Subjects)

- Afrikaans EAT
- English HL
- LO
- Math/Math Lit

Choice subjects (3 Subjects)

- Three choice subject

<u>Commerce</u>	<u>Humanities</u>	<u>Sciences</u>	<u>Practical Subjects</u>
Business Studies Economics Accounting	Tourism Geography History	Physical Sciences Life Sciences	EGD Consumer Studies Visual Arts CAT

Subjects the school offer.

How to choose.

- Subject are divided into groups.
- You pick one subject per group.

Group 1	Group 2	Group 3	Group 4
Mathematics	EGD	Physical Sciences	Life Sciences
Mathematical Literacy	Tourism	Geography	Economics
	Consumer Studies	Accounting	Business Studies
	CAT	Visual Arts	History

Two factors that influence availability of subject

SUBJECT INTEREST

- Subject can only be offered if more than 20 learners chooses the subject.
- Not practical to accommodate class groups with less than 20 learners

LIMITATIONS OF RESOURCES.

- CAT specifically: Only 56 Spaces available.
- Therefore Top candidates in mathematics gets first pick.

Subject Changes.

- Not recommended as all prior work must be caught up.

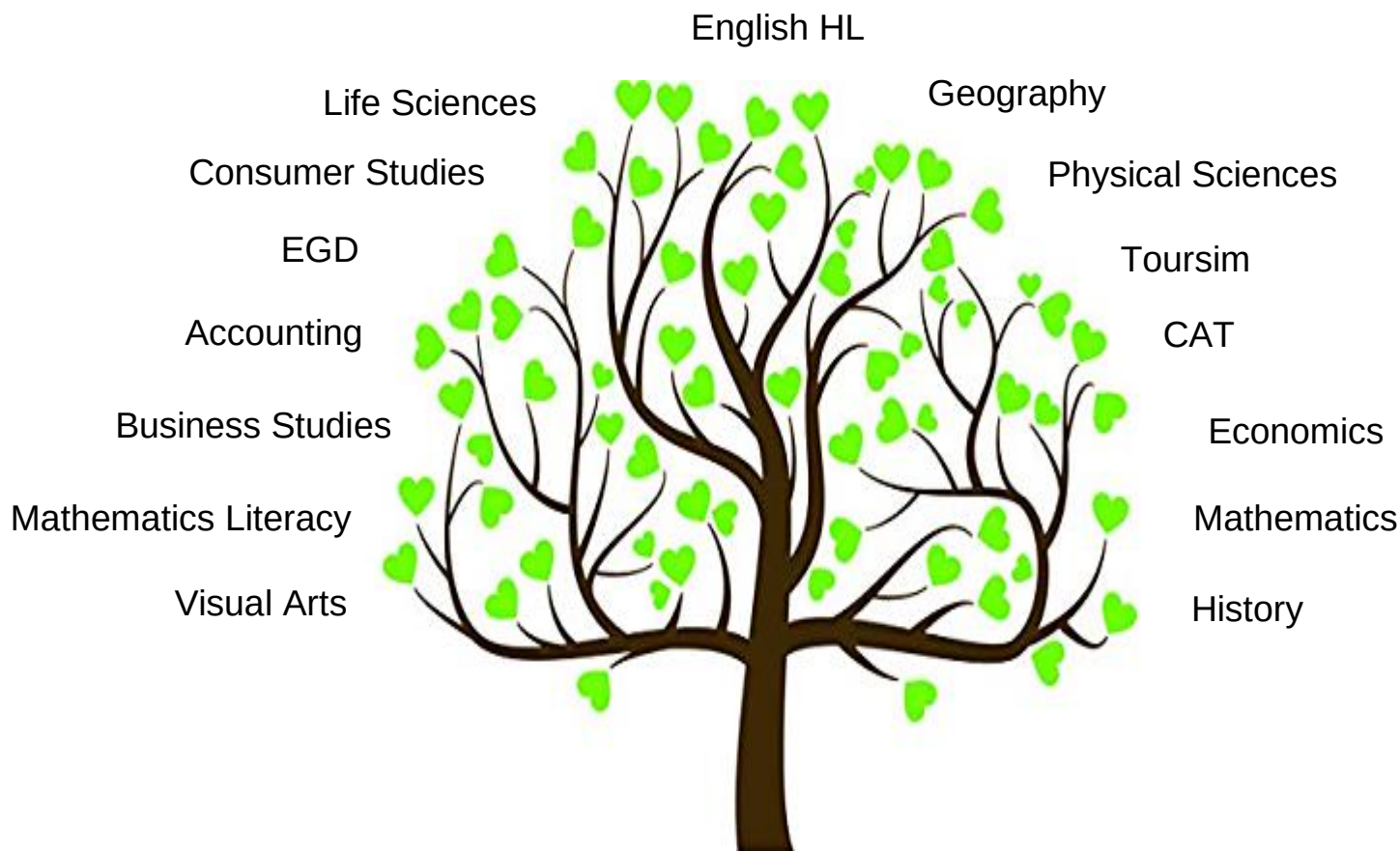
BUT

- A learner may change ONE subject AFTER the first term in Grade 10 if the parents agree.

Hoërskool Hercules



Grade 9



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We at Hoërskool Hercules work for a



Bachelor Pass

What is your dream for your future?



How parents can best help their children with subject choices

Here is how you can help:

1. Start thinking – and talking – about it, sooner rather than later
It is vital that you – and your teenager – have enough time to think their potential subject choices over thoroughly. It is also vital that enough time is at your – theirs and your own – disposal to investigate different options and to do research on different career paths.

2. The ABC of choosing subjects

The requirements for the National Senior Certificate are 7 subjects:

- 4 subjects are compulsory: 2 South African languages (the 1st is as Home Language and the 2nd is a First Additional Language), Mathematics OR Mathematical Literacy, and Life Orientation.
- 3 subjects have to be chosen from the approved subject list as supplied by the Hoërskool Hercules.

Mathematics is a requirement for many university courses and career paths. Thus you have to keep this in mind when opting for one or the other.

If the 3 optional subjects are chosen correctly and carefully, with all possible factors taken into account, your teenager will have many career opportunities ahead of them.

3. Let them talk, make sure you listen and offer support

Encourage your teenager to talk about what they would like to do one day. The career that they choose should be something they are passionate about or something that they are really interested in. Being financially stable is a factor that is important too though this should not be the main deciding factor.

Assist your teenager with internet research but let them to most of it themselves. If necessary, channel the research that is done to involve various careers and options.

Depending on the interests and abilities of your child you should look at different training and studying options. Studying options include colleges, universities of technology and universities. Different courses – and different requirements for these courses – at different institutions and/or training possibilities in the work place should also be investigated.

Be supportive at all times and guide them to make sensible decisions and choices.

4. Smart people ask for help

Find out about different careers by asking people (family, friends and strangers) who are already working in that field. Speak to teachers, especially those who teach the subjects your teenager is considering, and career counsellors. Attend career evenings or events and open days at institutions. Organise work shadow days or work experience weeks. Book an aptitude test if you feel that more information is needed to make the right decision.

5. Don't underestimate how important subject choices are

Your teenager's subject choices will determine which career they will be able to follow once they have finished Matric

SUBJECTS

Subject choices can only be made from the collections which is prescribed by Gauteng Education Department.

COMPULSORY SUBJECTS FOR GR.10:

1. AFRIKAANS FIRST ADDITIONAL LANGUAGE (AFRIKAANS EAT)
2. ENGLISH HOME LANGUAGE (ENGLISH HL)
3. LIFE ORIENTATION (L.O.)
4. MATHEMATICS OR MATHEMATICAL LITERACY (MATH / MATH LIT)

**Please keep the following in mind
when choosing a subject:**

- The learner has to PASS the subject currently in Gr.9 to continue with the subject in gr.10.
- Take in consideration the University exemption requirements when choosing a combination.
- MATHEMATICS is compulsory with PHYSICAL SCIENCE.

Subject Hoërskool Hercules officer:

<u>Commerce</u>	<u>Humanities</u>	<u>Sciences</u>	<u>Practical Subjects</u>
Business Studies Economics Accounting	Tourism Geography History	Physical Sciences Life Sciences	EGD Consumer Studies Visual Arts CAT



CHOOSE ON SUBJECT IN THE FOLLOWING GROUPS:

GROUP 1	GROUP 2	GROUP 3	GROUPS 4
Mathematics	EGD	Physical Sciences	Life Sciences
Mathematical Literacy	Tourism	Geography	Economics
	Consumer Studies	Accounting	Business Studies
	CAT	Visual Arts	History



The first thing learners need to know is that to qualify for higher/further education and training studies they must make certain that they have the **right subjects** to meet the minimum entry requirements to study further.

Choosing the right subjects is only the first step to getting into a university, university of technology or FET College. **Learners also have to have certain levels of achievement to meet the entry requirements for that particular qualification.**

One way for universities to measure your level of achievement is with a point rating system (APS), no matter what kind of tools universities use as entry requirements, the bottom line is that the **better you perform in all your subjects, the more options you have.**

You can calculate your own **APS score** by adding the points of your six best subjects in high school (excluding Life Orientation), the percentage you received for that subject determines your points. The total number of points you receive is you APS.

The point system works as follows:

Rating Code and Point	Performance Level	Marks %
7	Outstanding performance	80-100%
6	Merit performance	70-79%
5	Significant performance	60-69%
4	Satisfactory performance	50-59%
3	Average performance	40-49%
2	Elementary performance	30-39%
1	Does not perform	0-29%

Once you have added all your points together, you have you APS score. The highest possible score you can achieve is 42.

*** Life Orientation is excluded from the APS score:**

Examples of possible achievements:

Learner 1			Learner 2		
Subjects:	%	APS	Subjects:	%	APS
AFR. HT	52%	4	ENG. HL	62%	5
ENG. FAL	56%	4	AFR. EAT	65%	5
MATHS.	58%	4	MATHS. LIT	75%	6
EGD	54%	4	LIFE SC.	45%	3
GEO.	52%	4	TOUR	63%	5
CAT	60%	5	HIST	71%	6
LO	50%	4	LO	50%	4
Total APS:		25	Total APS:		30

For undergraduate qualifications theses of the minimum APS scores needs:

- Higher Certificate - 15 points
- Diploma - 18 points
- Bachelor's Degree - 21+ points (depending of the qualification)

Admission requirements for degree studies.

1. You must obtain a minimum of 4 (50%) in each of these subjects.
2. Your Home language must be 40% and Life Orientation 50%.
3. By adhering to the points mentioned above, you can apply to study at any South African university, BUT keep the following in mind (it may differ from university to university):
 - You must achieve the minimum entry mark of the field of study.
 - Some fields of study require a minimum level of achievement in certain school subjects.
 - Certain selected programs require higher entry points.
 - Selection and evaluation tests for admission to selected programs are also applied.

Admission requirements: Key Subjects

BA	-	Language is a recommendation
BCom	-	Mathematics and Accounting a recommendation
BSc	-	Mathematics, Physical Sciences and/or Life Sciences a recommendation

Alternative admission routes:

Candidates with an AP score lower than required, or without Mathematics as required, may be considered for admission to universities if all other requirements are met. Candidates who meet the requirements for full qualification still get preference.



Please note when considering your choice:

- * Do not choose a subject just because you **like** the teacher.
- * Do not drop a subject because you **dislike** the teacher.
- * Do not choose a subject to satisfy your parents or other people.
- * Choose the subjects which you are interested in.
- * Choose the subjects in which you are performing well.
- * **Do not choose Mathematics because you do not know what you are going to do. Only choose Mathematics if you perform in it.**
- * Make sure of the University of Technology and Universities' admission requirements.

Important!

Subject interest:

A subject may only be offered by the school if **a minimum of 20 learners** chooses the subject. Due to rationalization and the increase in teacher / learner relationship, it is no longer practically possible to accommodate class groups less than 20 in a timetable.

Limited spaces in the CAT class:



Please take our predicament in mind; **we have only 56 spaces** in our CAT class. The criteria for consideration for this subject choice is the top candidates in Mathematics. They will get first pick until a satisfactory solution can be found to accommodate other learners.

Subject changes?

A learner may change ONE subject after the first term in Grade 10 if the parents agree.

It is important to stress that the learner must catch-up work and assessments of the previous term in the newly selected subject. This might put him/her under pressure to catch-up the backlog.

A Quick Note on Mathematical Literacy.

Before you decide to opt for Mathematical Literacy instead of Mathematics, it is very important for you to make sure which of the two you will need for your tertiary studies. Most degrees and university studies require Mathematics. This doesn't mean that you can't study if you choose Mathematical Literacy, but it does limit your choices. Make sure to be well-informed about application prerequisites for your desired field of study.



Bridging courses and extended degree programmes.

Granted, it is not how you saw the scenario playing out. Yet, all hope is not lost. Before you start putting your dreams of studying to bed, keep in mind that second chances do exist.

Past matriculants have overcome this challenge and gone on to qualify as professionals in their chosen fields. There is no shame in redoing matric subjects that caused disappointment. So how can you improve specific matric marks? Simple answer: through a bridging course.

This is the crossover to the future of your choice.

A bridging course is a short course that allows a matriculant to redo matric subjects and get a solid pre-degree/diploma foundation. It's designed to upgrade certain matric marks.

A bridging course can easily be confused with an extended degree programme.

An extended degree programme is where you study your chosen degree but you take an extra year to complete it.

So bridging courses focus on giving your marks a facelift while extended degree programmes involve taking an extra year to complete your degree.



How do I make a decision?



Perhaps the following brief summary can help you to decide!

(Only **SOME** professions are listed in each subject)

Computer Application Technology (CAT)

Some of the content covered in the syllabus includes:

- Word, Excel, Access and Power point.
- Basic programming, for example; html (websites), etc.
- Hardware and software.

Some career opportunities:

- In almost no occupation, the computer does not play a key role.
- Secretarial posts.
- Reception.
- Liaison officers.



Tourism

- Popular field of study with Tourism are the fastest growing industry in the world.
- Subject involves many tasks and assignments, but is interesting and is not that difficult.

Some career opportunities:

- Hotel industry and other accommodation.
- Travel industry: Air, water, road and rail.
- Air services, boats, motor rentals and passenger trains.
- Destination industry: All attractions.
- Industrial and commercial sector.
- Travel organization: Travel agents, tour operators.
- Government organizations: Tourism departments, national, provincial and local.



Consumers Studies

Some of the content covered in the syllabus includes:

- Food preparation, nutrition and food service.
- Entrepreneurship – production and marketing
- Health and safety legislation.
- Stock control and management.
- Restaurant; Appearance, clothing and service teams.

Some career opportunities:

- Hotel / restaurant management.
- Professional chef.
- House parents for orphanage houses.
- Consumer Services and Event Management.
- Franchises, restaurants owner.
- Co-ordinate events within the fields of food or design.
- Dietician.



Engineering Graphics and Design (EGD)

- Consist mainly of Technical Drawing.
- Drawing up and designing plans (Mechanical, Civil and Electric).
- Drawing also takes place on the computer with Turbo CAD drawing program.

Some career opportunities:

- Architecture.
- Landscape designer.
- Graphic designer.
- Planner.
- City and town planner.
- Draftsmen (Mechanical, Civil and Electric).



Business Studies

- Learn the business environment and business opportunities in the market.
- Identify the business environment and business opportunities.
- Entrepreneurship is a reality and not more than just a fashion trend.
- Content includes the following: Creative thinking; Teamwork; Careers; Stress management and problem-solving skills.

Some career opportunities:

- BCom-directed professions.
- Marketing.
- Purchasing management.
- External Relations.
- Personnel management.
- Entrepreneur.



Accounting

- Important knowledge, values and norms are learned how to make informed decisions about personal and joint financial decisions regarding his or her economic and social environment.
- Get acquainted with Financial Accounting, Management Accounting as well as ethics and internal controls as applied in practice.
- Requirements for BCom study fields.

Some career opportunities:

- Any BCom field of study.
- Auditor / Forensic Audit.
- Financial advisors.
- Own business.
- Chartered Accountant.

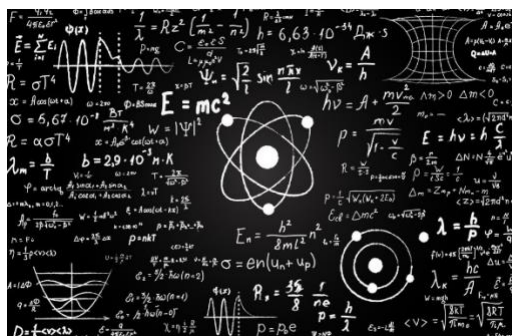


Physical Sciences

- The study of non-living natural science phenomena. Current field of study and link well with Mathematics, Life Sciences and Geography. The subject has a mathematical nature and deals with solving of word problems with scientific and mathematical formulas and principles.
- Involves Physics and Chemistry.
- Requires a lot of insight and ability to solve problems.
- May only be taken with Mathematics and not Mathematical.
- Literacy.

Some career opportunities:

- Together with mathematics almost any field of study.
- Biological and physical sciences.
- Medical.
- Engineering.



Life Sciences



Some of the content covered in the syllabus:

- Tissue, cells and molecular studies.
- Basic living systems such as breathing, excretion, gas exchange, food production, human nutrition and energy exclusion.
- Environmental Studies: Biosphere, Levels of Life, Biome, Food-chains, energy flows and ecosystems and natural resources.
- Diversity, Change and Continuity.
- Plant and Zoology.

Some career opportunities:

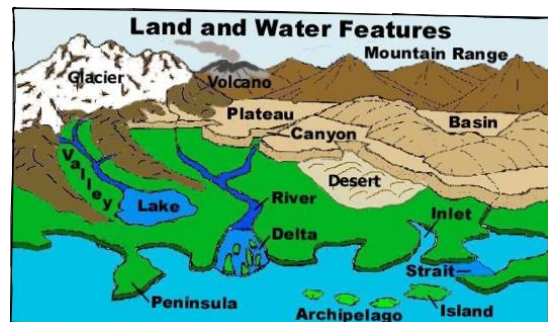
- Any natural science study field.
- Medical, Physical- and Occupational Therapists and Psychology.
- Any Biological field of study.
- Forensic molecular biology.



Geography

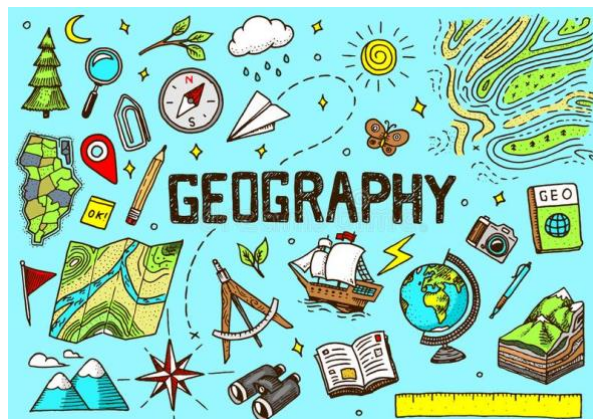
Some of the content covered in the syllabus:

- Climatology and weather.
- Geomorphology.
- Card work.
- Population geography.
- Economic Geography.



Some Career Opportunities:

- BA Fields: Urban and Regional Planning, Hydrography, Population, impact studies, Tourism, Pilot, Population movements, Archaeology and Information.
- BSc courses: Astronomy, Impact studies, Geographical Information Systems, Landscape Architect, Climatology, Soil Science, Mechanical Engineering and Archaeology.

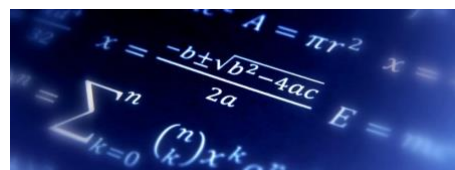


Mathematics

- The subject is really for the learner in Grade 9 in Mathematics.
- 40% performs.
- Content very focused on logic and insight.
- Difficulty of difficulty high.

Includes:

- Algebra like products, factors, fractions, equations, functions.
- Analytical geometry.
- Trigonometry which forms an important component of Physical Sciences.
- Statistics, Data and Probability.
- Differential calculations + Logarithms.
- Volume and area of complex 3-dimensional problems.
- Financial mathematics.

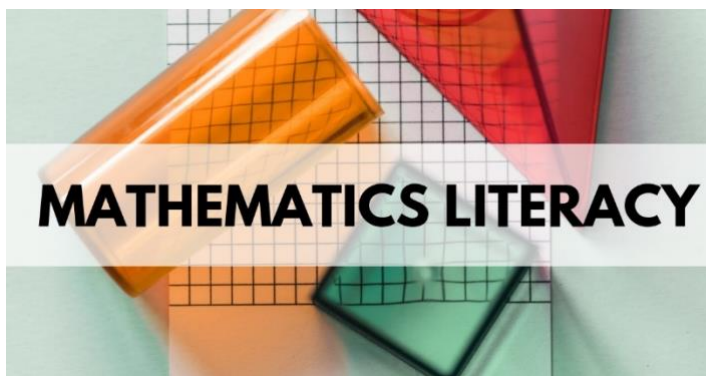


Some career opportunities:

- Requirement for any BSc and BCom field of study.
- Fields of study such as Medical, Engineering, Architecture, Information Technology, Computer Science, Statistics.
- Any natural science study field.

Mathematical Literacy

- Numbers, ratios and percentages.
- Money - Savings, interest, budgets, inflation, interest rates.
- Tables and graphs.
- Probability.
- Results from graphs.
- Lengths, distances, area and volume.
- Shapes and objects.
- Plans and maps.
- Business Management.



Some career opportunities:

- Information science, Publishing.
- Oral hygiene, BCur (Nursing).
- All Bed Education degrees.
- LLB.
- All degrees in Theology.
- Public Management and International Relations.
- BA (Law).
- Any diploma courses.
- Humanities.
- All courses in languages and communication.

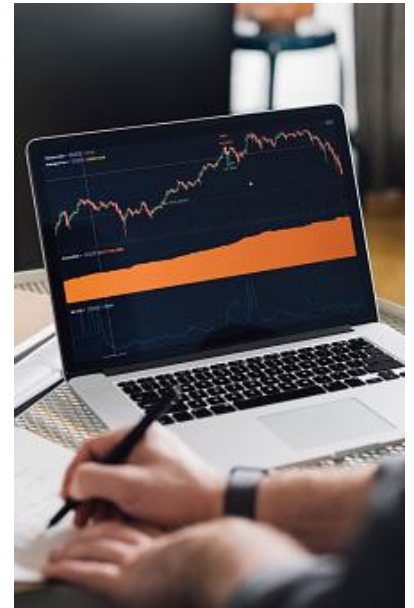
Economics

What do you learn in economics?

In Economics you learn about supply and demand, perfect and imperfect competition, taxation, international trade, price controls, monetary policy, exchange rates, interest rates, unemployment and inflation amongst many other topics to understand individual markets, the aggregate economy and government policies.

Some career opportunities:

Hospitality, leisure and tourism.
Accounting and financial management.
Consulting.
Investment banking and investment.
Banking, insurance and financial service.



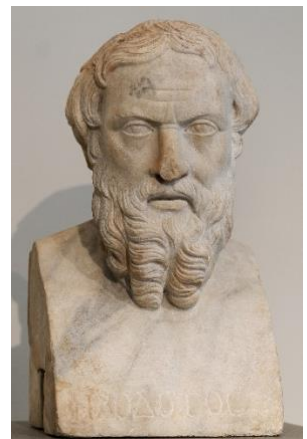
History

What do you learn in history?

The Grade 10 CAPS curriculum focuses on developing students' practical skills, rather than reiterating historical facts taught in class. Students must be able to critically analyse historical sources, events and figures.

Some career opportunities:

- History teacher
- Game ranger
- History lecturer
- Librarian
- Government historian
- Historical consultant
- Political advisor
- Museum curator
- Archivist
- Lawyer
- Researcher
- Analyst
- Journalist
- Writer or Editor
- Reporter or journalist



Visual Arts



- identify and solve a variety of problems and make responsible and informed decisions, using critical and creative thinking processes;
- explore materials, processes and techniques in an efficient, economical, safe and responsible manner;
- observe, assess and analyse art forms, processes and products;
- communicate effectively using visual, oral and written language skills;
- work as a creative, innovative and resourceful individual, as well as a member of a group;
- critically appraise their own work and that of others and make informed personal aesthetic judgments in a way that is culturally and aesthetically sensitive;
- articulate ideas, opinions and preferences using specialist Visual Arts vocabulary;
- develop an awareness of the ethical and environmental implications of their own practices and explore the recycling of waste materials;
- experience a sense of creation, expression, enjoyment and achievement;
- understand the dynamic role of visual culture as a tool for social transformation;
- value and appreciate the diversity of visual arts traditions in the Southern African context, and view both develop entrepreneurial skills and professional practice within art to explore a variety of career options and make an economic contribution to themselves and society; and
- become aware of Higher Education and career development opportunities.
- their own and other cultural traditions as a vital creative resource;



Some career opportunities:

- fine art (e.g. professional artist, visual arts educator, illustrator);
- advertising (e.g. art director, copywriter, photographer);
- design and decorating (e.g. graphic, textile, fashion, landscape, interior, product, jewellery and stage design; illustration, animation and cartooning);
- craft (e.g. craftsperson, product developer, operations manager);

- architecture and the built environment (e.g. architect, town planner, landscape designer, interior designer, decorator);
- art management and marketing (e.g. dealer, gallery supervisor, agent, publicist, fundraiser, project manager);
- art criticism (e.g. journalist, critic, art historian);
- public art (e.g. organising small-scale and large-scale public art events, mural artist);
- curating and conservation (e.g. curator, exhibition designer, conservator working in a museum, public or private gallery or travelling exhibition);
- education and training (e.g. teacher, trainer, educator based in a cultural museum or art gallery, development practitioner, materials developer, lecturer in crèche, school, college, NGO, community art centre, private provider, university or Technicon);
- film and video (e.g. director, stills photographer, set builder, set designer, cinematographer);
- theatre (set designer, set builder, lighting designer, costume designer); and
- entertainment technology.

	Possible career opportunities:	Recommended or required subjects:
MEDICINE AND HEALTH SCIENCES	Medical doctor; dietician; physiotherapist; occupational therapist; speech-language therapist.	Mathematics, Physical Sciences and Life Sciences
AGRISCIENCES	Forest manager; food scientist; careers in animal and crop production; conservation ecologist; agricultural economist; winemaker; cellar manager; agronomist; careers in agritourist; general farming; consultant; teacher	Mathematics, Physical Sciences and Life Sciences
ARTS & SOCIAL SCIENCES	Human Resource Manager, sport scientist; information specialist; politician; psychologist; social worker; actor; theatre scientist; graphic designer; artist; civil servant; language practitioner; musician; journalist (postgraduate programme); project planner; teacher.	Mathematics or Mathematical Literacy (depends on choice of programme)
ECONOMIC & MANAGEMENT SCIENCES	Chartered accountant; management accountant; financial accountant; actuary; economist; entrepreneur; investment manager; financial manager; marketing manager; human resource manager; logistics manager; risk manager; computer scientist (IT); Industrial psychologist; teacher	Mathematics, Afrikaans or English
EDUCATION	Teacher: foundation, intermediate or senior phase (R to 9); educational psychologist (to become a high-school teacher,	Mathematics or Mathematical Literacy

	you must first obtain a B degree with the subject(s) that you would like to teach and then the Postgraduate Certificate in Education(PGCE)).	
ENGINEERING	Chemical, civil, electric and electronic, mechanical, mechatronic, or industrial engineer.	Mathematics and Physical Sciences
LAW	Advocate; lawyer; legal advisor.	Mathematics or Mathematical Literacy (depends on choice of programme)
SCIENCE	Ecologist; physiologist; biochemist; microbiologist; biogenetics; sport scientist; psychologist; physicist; geologist; GIS specialist; teacher; computer scientist (IT); mathematical statistician	Mathematics and Physical Sciences. Life Sciences strongly recommended if you wish to study a programme in Biological Sciences.
THEOLOGY	Minister of religion; pastor; youth worker; pastoral therapist; careers in community development.	Mathematics or Mathematical Literacy

We trust that the information will support you in decision-making and planning concerning your child. If we can be of assistance or give advice, you are more than welcome to discuss the matter with us.

