



# Subjects

Innovative, quality driven online school  
for learners in Grade R-12

[brainline.com](https://brainline.com)

subjects

## Subject Choices

To qualify for a National Senior Certificate, a learner should complete 7 subjects:

- ➔ one Home Language,
- ➔ an Additional Language,
- ➔ Mathematics or Mathematical Literacy,
- ➔ Life Orientation,
- ➔ and a minimum of 3 NSC approved subjects.

## English or Afrikaans HL and English or Afrikaans FAL



### SUBJECT TOPICS

- Reading skills and comprehension
- Visual comprehension
- Vocabulary development
- Communication and listening skills
- Analysis of poetry and prose
- Creative and critical writing skills

### REQUIREMENTS

- Taking a Home Language (HL) is compulsory.
- Minimum of 40% is required for promotion.
- Taking a First Additional Language (FAL) is compulsory.
- Minimum of 30% is required for promotion.

### CAREER OPPORTUNITIES

Journalist, Copywriter, Writer, Announcer, Programme Presenter, Editor

## Mathematical Literacy

### SUBJECT TOPICS

#### Basic Skills:

- Interpreting and communicating answers and calculations
- Numbers and calculations
- Patterns, relationships and representations

#### Application Skills:

- Finance and measurement
- Maps, plans and other representations of the physical world
- Data handling and probability



### REQUIREMENTS

Compulsory if Mathematics is not taken.

### CAREER OPPORTUNITIES

Some tertiary fields of study may require Mathematics.

## Mathematics



### SUBJECT TOPICS

#### Paper 1:

- Sequences and Series
- Inverse Functions
- Financial Mathematics
- Algebra
- Differential Calculus
- Fundamental Counting
- Principle and Probability

#### Paper 2:

- Trigonometry
- Analytical Geometry
- Euclidian Geometry
- Statistics

### REQUIREMENTS

To take Mathematics from Grade 10 onwards, an average of at least 60% in Grade 9 is recommended.

### CAREER OPPORTUNITIES

Finance and Commerce, Teaching and Research, Engineering and Construction, Information Technology, Medical and Health Sciences

## Physical Sciences



### SUBJECT TOPICS

#### Physics:

- Kinematics (Motion), Forces, Electrostatics, Electric Circuits, Electrodynamics, Waves

#### Chemistry:

- Atomic Structure, Chemical Bonding and Reactions, Chemical Reaction Dynamics
- Electrochemistry, Organic Chemistry, Quantitative Chemistry

#### Practical assessments:

- Scientific investigations using computer simulations – no scientific equipment required.

### REQUIREMENTS

- Mathematics is compulsory
- Analytic thinking skills and an enquiring mind

### CAREER OPPORTUNITIES

Scientist, Physicist, Chemist, Forensic Scientist, Technologist, Technician, Medical careers

## Life Sciences



### SUBJECT TOPICS

- Life at molecular, cellular and tissue level
- Diversity and change
- Environmental studies
- Life processes in animals and plants
- Gr 10 and 11: Scientific investigations using basic utensils and homeware
- Gr 12: Compulsory 3-day practical workshop

### REQUIREMENTS

- Good language and communication skills
- Good problem-solving skills
- Analytic thinking skills
- Enquiring mind, detail oriented

### CAREER OPPORTUNITIES

Biologist, Veterinary Surgeon, Conservationist, Microbiologist, Medical careers

## Agricultural Sciences



### SUBJECT TOPICS

- Soil Science
- Utilising sustainable natural resources
- Plant Science, Animal Science
- Genetics
- Agricultural Chemistry
- Agro-ecology, Agricultural Economics

### REQUIREMENTS

- Good problem-solving and analytic skills
- Interest in agriculture and environment
- Good communication skills
- Understanding of business principles
- Taking Life Sciences is advantageous

### CAREER OPPORTUNITIES

Agricultural Scientist, Animal Scientist, Soil Scientist, Horticulturist, Farmer

## Equine Studies



### SUBJECT TOPICS

- Anatomy
- Physiology
- Nutrition
- Handling
- Stabling and Transport
- Practical Riding Skills

### REQUIREMENTS

- Access to a horse on which to compete
- Required horse riding equipment
- Regular riding lessons
- Compete in at least 4 competitions:
  - Grade 11: Novice level
  - Grade 12: Above novice level
- Level 1 SANIP instructor for practical tasks

### CAREER OPPORTUNITIES

Equine Veterinarian, Equine Veterinary Technician, Riding Instructor, Farrier, Jockey, Groom, Equine Dental Technician, Horse Breeder

# Life Orientation



## SUBJECT TOPICS

- Developing life skills
- Learning about social and environmental responsibility
- Democracy and human rights
- Researching career choices
- Study skills
- 10 hours community service
- Skills courses (external)

## REQUIREMENTS

- Physical activities may be required.
- Continuous Assessment Tasks and External Certification Tasks in place of a final examination in Grade 12.
- Submitting and passing all assessments is a prerequisite for passing Grade 12.

# Geography



## SUBJECT TOPICS

- Physical Geography: The natural world around us
- Human Geography: The built-up world around us
- Economic Geography: The spatial representation of money around us

## REQUIREMENTS

- Logical thinking skills
- Enquiring mind
- Keen interest in the world around you

## CAREER OPPORTUNITIES

Meteorology, Geology, Eco-tourism, Soil Analysis, Environmental Conservation, Demography, Real Estate Analysis, Urban and Regional Planning

# History



## SUBJECT TOPICS

A detailed study of topics such as:

- Apartheid
- The Cold War
- Independent Africa

## REQUIREMENTS

- Good creative and critical writing skills
- Textual and visual analytic ability
- Interest in historical research

## CAREER OPPORTUNITIES

Journalism and Tourism, Diplomatic careers, Research, Political Sciences



## our Vision

To be a leading innovative, quality-driven, compliant curriculum provider.

## our Mission

Brainline aims to provide a valid, reliable, consistent, diverse and uninterrupted online education to learners in Grade R - 12.

## Business Studies



### SUBJECT TOPICS

- Business Sectors
- Entrepreneurship
- Business Plans

### REQUIREMENTS

- Creative minds
- Problem-solving
- Good human relationships

### CAREER OPPORTUNITIES

Corporate Entrepreneur, Marketing Manager, Labour Relations Consultant, Logistics Manager

## Accounting



### SUBJECT TOPICS

- Accounting Concepts
- Accounting Equation
- Financial Statements
- Reconciliations
- VAT
- Cost Accounting
- Budgeting

### REQUIREMENTS

- Passionate about numbers
- Innovative problem-solving
- Critical thinking and creative leadership

### CAREER OPPORTUNITIES

Chartered Accountant, Accountant, Financial Manager, Forensic Specialist, External/Internal Auditor, Tax Professional, Investment Professional, Business Analyst



## Accreditation

Brainline's recognition with the Umalusi-accredited IEB assures you of quality assessment in accordance with policy. This means that you can trust Brainline to assist you on your journey as you work towards your fully accredited National Senior Certificate.

## Tourism

### SUBJECT TOPICS

- Tour Planning
- Foreign Exchange
- Marketing
- Customer Care
- Entrepreneurship

### REQUIREMENTS

- Adventurous
- Good verbal skills
- Computer literate



### CAREER OPPORTUNITIES

Tourist Guide, Travel Agent, Flight Attendant

## Consumer Studies

### SUBJECT TOPICS

- Entrepreneurship
- The Consumer
- Food and Nutrition
- Housing and Furnishings

### REQUIREMENTS

- Creativity and flair
- Passion for health and style
- Organisational skills



### CAREER OPPORTUNITIES

Chef, Dietician, Clothing and Interior Designer

# Computer Applications Technology



## SUBJECT TOPICS

- Microsoft Office Applications
- Hardware, Networks
- Solution Development, Internet Technology
- Communication Media, Social Implications
- Microsoft Office Applications
- HTML (Webpage/Site Design)

## REQUIREMENTS

- Laptop
- MS Office 365 including MS Access
- Microsoft Windows 10/Mac OS X
- Compulsory final Gr 12 IEB Practical Examination at a dedicated Brainline centre

## CAREER OPPORTUNITIES

Fundamental computer skills enable enhanced productivity in all careers and fields of study.

# Engineering Graphics and Design (EGD)



## SUBJECT TOPICS

- Graphic communication using drawing instruments and computer-based tools.
- Concepts within Mechanical, Civil and Electrical Technology.
- Instrument and freehand drawing techniques.
- Solving technological problems in creative ways through graphic drawings.

## REQUIREMENTS

- Drawing Instruments, CAD programme, printer and scanner
- Logical thinking skills and 3D visualisation

## CAREER OPPORTUNITIES

Architecture, Engineering, Artisans, Quantity Surveying, City Planning, Land Surveying

## BRAINLINE IS ...

- ✓ COMPLIANT
- ✓ IEB-RECOGNISED
- ✓ TRUSTED
- ✓ CONSISTENT
- ✓ ACCESSIBLE
- ✓ INNOVATIVE

# Visual Arts



## SUBJECT TOPICS

- Theory and practical creation tasks in various Visual Arts disciplines.
- Exploring and reflecting on social issues, past and present, in visual creations.
- Introduction to new ideas, materials, processes and technologies.
- Visual literacy.

## REQUIREMENTS

- Artistic ability
- Curious, imaginative, critical thinker
- A time-consuming subject
- A qualified private art tutor is advantageous

## CAREER OPPORTUNITIES

Professional Artist, Illustrator, Photographer, Graphic Designer, Artistic Director, Curator

## OUR PRODUCT OFFERING

Brainline offers unique online programmes that suit the needs of parents with children of all ages who wish to work towards a National Senior Certificate through online education.

### Grade 1-3

Edu-123-Go! for Grade 1-3 empowers you as parent/guardian to take control of your child's most precious developmental years in the comfort of your own home.

### Grade 12 IEB NSC

Grade 12: This is your home stretch towards your ultimate FET goal – an Umalusi accredited NSC! Dynamic additional support and a compliant assessment programme empowers a student with the skills required to advance to the NSC.

### Gr 8-12 COMPREHENSIVE

Gr 8-12: Provides you with the opportunity to control how, when and where your child studies as well as access to unique resources that you need to provide your child the best learning experience and additional support through this IEB-compliant assessment programme.

### Gr 4-7 COMPREHENSIVE

Gr 4-7: The opportunity to control how, when and where your child studies, and allows access to all the resources you need to provide your child with the best learning experience and compliant assessment programme.

### EXPRESS

Gr 4-11: Allows you to choose and source study material for your child, and provides an assessment portfolio that your child can complete at his/her own pace.

### Adult Matric

Adults 18+: Adult Matric is an exclusive Brainline interwoven Grade 10 and 11 curriculum that delivers core content in one academic year, accommodating time constraints and preparing a student for Grade 12 at Brainline in the following year.

### Single Subjects

Gr 10-12: Students can choose from our extensive subject offering to complement or upgrade their academic portfolios. Dynamic support and a compliant assessment programme empowers them with the skills required to advance to the NSC.