



# basic education

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Department:  
Basic Education  
**REPUBLIC OF SOUTH AFRICA**

## **GEOGRAPHY**

### **EXAMINATION GUIDELINES**



**GRADE 12**

**2021**

**These guidelines consist of 22 pages.**

**TABLE OF CONTENTS**

<b>1. INTRODUCTION</b> .....	3
<b>2. ASSESSMENT IN GRADE 12</b> .....	4
2.1 PAPER 1 .....	4
2.2 PAPER 2 .....	4
<b>3. ELABORATION OF CONTENT/TOPICS</b> .....	5
<b>3.1 PAPER 1</b> .....	5
3.1.1 Climate and Weather .....	5
3.1.2 Geomorphology: .....	7
3.1.3 Geographical Skills and Techniques .....	9
<b>3.2 PAPER 2</b> .....	10
3.2.1 Rural and Urban Settlements .....	10
3.2.2 Economic Geography of South Africa .....	13
3.2.3 Geographical Skills and Techniques .....	16
<b>3.3 STRUCTURE OF EXAMINATION QUESTION PAPER</b> .....	18
3.3.1 Details of question papers .....	18
3.3.2 Cognitive Levels .....	19
<b>4. GENERAL GUIDELINES FOR MARKING</b> .....	19
<b>5. CONCLUSION</b> .....	20
<b>6. ANNEXURE A: ACTION WORDS</b> .....	21

## 1. INTRODUCTION

The Curriculum and Assessment Policy Statement (CAPS) for Geography outlines the nature and purpose of the subject Geography. This guides the philosophy underlying the teaching and assessment of the subject in Grade 12.

The purpose of these Examination Guidelines is to:

- Provide clarity on the depth and scope of the content to be assessed in the Grade 12 National Senior Certificate (NSC) Examination in Geography.
- Assist teachers to adequately prepare learners for the examinations.

This document deals with the final Grade 12 external examinations. It does not deal in any depth with the School-Based Assessment (SBA).

These Examination Guidelines should be read in conjunction with:

- *The National Curriculum Statement (NCS) Curriculum and Assessment Policy Statement (CAPS): Geography*
- *The National Protocol of Assessment: An addendum to the policy document, the National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF), regarding the National Protocol for Assessment (Grades R–12)*
- The national policy pertaining to the programme and promotion requirements of the National Curriculum Statement, Grades R–12
- *Abridged Amended Section 4 of FET CAPS in Grades 12*



**2. ASSESSMENT IN GRADE 12**

**2.1 PAPER 1**

- 2.1.1 This is a 3-hour question paper which is written on a SEPARATE DAY from Paper 2.
- 2.1.2 The mark allocation for this paper is 150.
- 2.1.3 The question paper consists of two sections, namely SECTION A and SECTION B:  
SECTION A: Climate and Weather and Geomorphology (Theory)  
SECTION B: Geographical Skills and Techniques
- 2.1.4 SECTION A consists of **TWO** questions of 60 marks each.  
SECTION B consists of **ONE** question of 30 marks.
- 2.1.5 All **THREE** questions are compulsory.

**2.2 PAPER 2**

- 2.2.1 This is a 3-hour question paper which is written on a SEPARATE DAY from Paper 1.
- 2.2.2 The mark allocation for this paper is 150.
- 2.2.3 The question paper consists of two sections, namely SECTION A and SECTION B:  
SECTION A: Settlement and Economic Geography of South Africa (Theory)  
SECTION B: Geographical Skills and Techniques
- 2.2.4 SECTION A consists of **TWO** questions of 60 marks each.  
SECTION B consists of **ONE** question of 30 marks.
- 2.2.5 All **THREE** questions are COMPULSORY.



### 3. ELABORATION OF CONTENT/TOPICS

#### 3.1 PAPER 1

##### 3.1.1 Climate and Weather

###### **Mid-latitude cyclones (frontal depressions, extra-tropical cyclones)**

- General characteristics
- Areas of formation
- Conditions necessary for formation
- Stages of development
- Cross-section through a mid-latitude cyclone
- Associated weather patterns:
  - Cold front conditions
  - Warm front conditions
  - Occluded front conditions
- Impact on human activities (social and economic) and the environment
- Possible pre-cautionary and management strategies
- Identification on synoptic weather maps and satellite images:
  - Identification of stages of development on synoptic weather maps
  - Impact of South Indian High and South Atlantic High on movement of the cyclone
  - Reading and interpretation of weather symbols, predicted weather impact

###### **Tropical cyclones**

- General characteristics
- Areas of formation and associated terms in different parts of the world
- Factors necessary for the formation
- Stages of development
- Associated weather patterns
- Cross-section through a tropical cyclone (interpretation)
- Impact on human activities (social and economic) and the environment (the impact of the weather associated with tropical cyclones)
- Pre-cautionary and management strategies to manage the effects of tropical cyclones
- Identification on synoptic weather maps and satellite images:
  - Identification of stages of development on synoptic weather maps
  - Reading and interpretation of applicable weather symbols
- Case study of ONE recent tropical cyclone anywhere in the world

**Subtropical anticyclones (high-pressure cells) and the resultant weather over South Africa**

- Location and identification of the THREE high-pressure cells that affect South Africa:
  - South Atlantic high-pressure cell
  - South Indian high-pressure cell
  - Kalahari high-pressure cell
- General characteristics of the THREE high-pressure cells
- Influence of anticyclones on South Africa's weather and climate (integration with plateau, inversion layer, ocean currents and ridging of the SAHP)- summer and winter position
- Reading and interpretation of information related to the THREE high-pressure cells on synoptic weather maps
- Development of travelling disturbances associated with anticyclonic circulation:
  - Moisture front and line thunderstorms
  - Coastal low pressure
  - South African berg wind
- Resultant weather and impact (and strategies to reduce the impact) associated with moving disturbances
- Identification of moving disturbances on synoptic weather maps and satellite images
- Reading and interpretation of synoptic weather maps and satellite images that illustrate weather associated with anticyclonic conditions

**Valley climates**

- Slope aspect:
  - Definition
  - Effect on the distribution of temperature in a valley
- Definition and development of:
  - Anabatic winds
  - Katabatic winds
  - Inversions
  - Thermal belt
  - Frost pockets
  - Radiation fog
- Influence/impact on human activities (economic, social and environmental):
  - Settlement
  - Farming

**Urban climates**

- Reasons for differences between rural and urban climates
- Urban heat islands:
  - Definition
  - Causes of urban heat islands/factors contributing to higher city temperatures
  - Effects of urban heat islands (economic, social and environmental)
  - Strategies to reduce the urban heat island effect
- Pollution domes:
  - Definition
  - Causes of pollution domes
  - Effects of pollution domes (economic, social and environmental)
  - Strategies to reduce the pollution dome effect

**Interpretation of synoptic weather maps** (integrate with the relevant content)

- Use of international symbols
- Identification and characteristics of high- and low-pressure cells
- Interpretation of the impact of high- and low-pressure cells
- Reading and interpretation of station models
- Satellite images – reading and interpretation
- Compare satellite images to synoptic weather maps

### 3.1.2 Geomorphology

#### Drainage basins in South Africa

- Concepts (definition, identification and application) of:
  - Drainage basin
  - Catchment area
  - River system
  - Tributary
  - Confluence
  - Watershed
  - Interfluvium
  - Source
  - River mouth
  - Surface run-off
  - Infiltration
  - Groundwater
  - Water table
- Types of rivers (definition, identification and application):
  - Permanent
  - Periodic
  - Episodic
  - Exotic
- Identification, underlying rock structure, development and characteristics of the following drainage patterns:
  - Dendritic
  - Trellis
  - Rectangular
  - Radial
  - Centripetal
  - Deranged
  - Parallel
- Definition and impact of factors influencing drainage density:(high/low drainage density):
  - Precipitation
  - Evaporation
  - Soil moisture
  - Vegetation
  - Slope/Gradient
  - Porosity
  - Permeability

**NOTE:** The above should be taught with the understanding of infiltration
- Determining stream order (definition, identification and interpretation)
- Discharge of a river: (definition, identification and application)
  - Laminar flow
  - Turbulent flow



**Fluvial processes**

- River profiles:
  - Definition, description and associated characteristics including stream load
  - Cross/Transverse profile
  - Longitudinal profile
  - Plan view of both profiles
  - Relationship of both profiles to the stages of a river (upper, middle, lower course)
- Identification, description, formation and significance and impact of fluvial landforms/features:
  - Meander
    - Undercut slope
    - Slip-off slope
  - Oxbow lake
  - Braided stream
  - Flood plain
  - Natural levee
  - Waterfall
  - Rapid
  - Delta
- River grading:
  - Definition (graded and ungraded rivers)
  - Processes involved in a river becoming graded
  - Distinguish between graded and ungraded streams
  - Base level of erosion
  - Temporary base level of erosion
  - Permanent base level of erosion
- River rejuvenation:
  - Definition
  - Reasons for rejuvenation
  - Features of rejuvenation
    - Knickpoint
    - Terraces
    - Valley in a valley
    - Incised/Entrenched meanders
  - Significance of rejuvenated landscapes (economic, social and environmental)
- River capture/Stream piracy:
  - Concepts (definition, identification and application) of:
    - River capture/stream piracy
    - Abstraction
    - Headward erosion
  - Features associated with river capture (identification, description and application):
    - Captor stream
    - Captured stream
    - Misfit stream
    - Elbow of capture
    - Wind gap
  - Impact of river capture on captor stream and captured stream
  - Implications of river capture for human activities, settlements, recreation, agriculture and ecosystems
  - Identification of features associated with river capture on topographic maps
- Superimposed and antecedent drainage patterns (definition, description and causes)





**Catchment and river management**

- Definition of river management
- Causes of poor river management
- Importance of managing drainage basins and catchment areas
- Impact of people on drainage basins and catchment areas:
  - River pollution (e.g. eutrophication)
  - Overgrazing
  - Deforestation
  - Human settlement
- Strategies to manage drainage basins/catchment areas
- Case study of one catchment management strategy in South Africa

**3.1.3 Geographical Skills and Techniques  
(Topographic map and orthophoto map reading and interpretation)****Mapwork Techniques**

- Contour lines, contour interval and height and conventional signs
- Compass direction
- True bearing
- Magnetic declination and magnetic bearing
- Map scale – types of scales and comparing the scales of topographic maps, orthophoto maps and aerial photographs
- Calculating straight-line distance in reality
- Calculating area of regular features
- Map reference numbers/Map index
- Alphanumeric reference/Grid reference
- Map coordinates/Fixing position – stating the coordinates
- Calculation and interpretation of average gradient
- Cross-sections – drawing of cross-sections, indicating position of features on cross-sections and identifying features represented by cross-sections
- Intervisibility
- Calculating vertical exaggeration

**Topographic Maps**

- Use of 1: 50 000 topographic maps:
  - To identify and interpret physical features, e.g. relief, drainage, climate and vegetation
- Application of the Grade 12 Paper 1 content on Climate and Weather and Geomorphology to mapwork
- Interpreting of temperature, rainfall, climate zones and biomes, graphs and tables that are related to the 1: 50 000 topographic map and the 1: 10 000 orthophoto map being assessed
- Identification of different types of rivers, drainage patterns, determining of stream order and drainage density on 1:50 000 topographic map and the 1 : 10 000 orthophoto map being assessed.
- Identification and interpretation of structural landforms and slope elements on 1 : 50 000 topographic map and the 1 : 10 000 orthophoto map being assessed.

**Aerial Photographs and Orthophoto Maps**

- Oblique and vertical aerial photographs – identifying landforms and features
- Use of size, shape, tone, texture, shadow and patterns to identify features, landforms and activities on photographs and orthophoto maps
- Orientation of orthophoto map with topographic map
- Compare orthophoto map to topographic map

**Geographic Information Systems (GIS)**

- GIS (definition)
- Components of GIS
- Sources of information for GIS
- Concepts (definition, identification and application) of:
  - Remote sensing
    - Resolution
    - Pixels
  - Spatial resolution
  - Spatial and attribute data
  - Vector and raster data
  - Spatial objects
    - Points/Nodes
    - Lines
    - Area/Polygons
- Data layering/thematic layering of information
- Data layers (identification and interpretation)
- Data manipulation and analysis:
  - Data manipulation
  - Data integration
  - Buffering
  - Querying
  - Statistical analysis
- Data standardisation
- Data sharing
- Data security
- Application of GIS by the:
  - Government
  - Private sector
- Developing a 'paper GIS' from existing maps, photographs and other sources of information on layers of tracing paper
- Identifying and interpreting concepts using given data such as satellite images, topographic maps, orthophoto maps, aerial photographs, pictures and statistics indicated on graphs and tables

**3.2 PAPER 2****3.2.1 Rural and Urban Settlements****Study of settlements**

- Definition of:
  - Settlement
  - Site
  - Situation
- Rural and urban settlements
- Classification of settlements according to:
  - Size and complexity
  - Pattern
  - Function

**Rural settlements**

- How site and situation affect the location of rural settlements
- Classification of rural settlements according to:
  - Pattern
    - Identification of different patterns
    - Advantages and disadvantages
  - Function
- Identification and reasons for different shapes of rural settlements:
  - Round
  - Linear
  - Crossroad
  - T-shape
- Land use in rural settlements
  - Identification of land use: farming, forestry and conservation

**Rural settlement Issues**

- Concept of rural-urban migration (definition and application)
  - Push and pull factors
- Definition of rural depopulation:
  - Causes and consequences of rural depopulation on people and the economy
  - Strategies to address rural depopulation
  - Case study that illustrates effects of rural depopulation and strategies to address them
- Social justice issues associated with rural settlements:
- Definition, purpose, challenges in implementation, success stories and impact on communities
  - Access to resources (natural: water and human-made: limited investment and lack of infrastructure)
  - Land reform (land tenure, redistribution and restitution)

**Urban settlements**

- The origin and development of urban settlements
- Urbanisation of the world population
- Concepts (definition, identification and application) of:
  - Urbanisation
  - Urban growth
  - Urban expansion
  - Urban sprawl
  - Rate of urbanisation
  - Level of urbanisation
  - Counter-urbanisation
- How site and situation affect the location of urban settlements
- Classification (identification, description and purpose) of urban settlements according to function:
  - Central places
  - Trade and transport towns (Break-of-bulk points, Junction towns and Gateway/Gap towns)
  - Specialised towns

**Urban hierarchies**

- Concepts (identification, description and interpretation) of:
  - Urban hierarchy
  - Central place
  - Threshold population
  - Sphere of influence
  - Range of goods
- Concepts (identification, description and interpretation) of:
  - Low- and high-order functions/services
  - Low- and high-order centres

**Urban structure and patterns**

- Internal structure and patterns of urban settlements (includes shape of urban settlements)
- Take note of the difference between land-use (e.g. greenbelt and recreation) and land-use zones
  - Land-use zones, including reasons for location, purpose and characteristics
    - Commercial (CBD, OBD, types of commercial decentralisation)
    - Residential
    - Industrial
    - Transition zone/Zone of decay
    - Rural-urban fringe
  - Factors influencing the morphological structure of a city
    - Street patterns (plan)
    - Building density
  - Urban profiles
    - Concept (definition, identification and application) of urban profile
    - Reasons for shape of urban profile
- Models of urban structure (description and characteristics):
  - Multiple nuclei (Harris and Ullman)
  - Modern American-Western city
  - Third World city
  - South African city
  - Changing urban patterns and land use in South Africa (buffer zones, greenbelts)

**Urban settlement issues**

- Recent urbanisation patterns/ trends in South Africa
- Urban issues related to rapid urbanisation: (definition, causes, impact, possible solutions like counter-urbanisation)
  - Pollution
  - Urban blight
  - Traffic congestion
  - Lack of planning/urban sprawl
  - Overcrowding
  - Housing shortages
  - Service provision (basic services)
  - Social challenges
- Informal settlements:
  - Concept (definition and identification)
  - Growth of informal settlements
  - Issues associated with informal settlements
  - Strategies to address issues relating to informal settlements
  - Case studies from South Africa and the world
- Case studies on how selected urban areas in South Africa are managing urban challenges

- Injustice issues in urban areas  
Definition of environmental, social and economic injustice concerns
  - Environmental concerns
    - Air pollution
    - Noise pollution
    - Destruction of ecosystems
  - Economic concerns
    - Poverty
    - Poor public transport systems
  - Social concerns
    - Unequal access to services
    - Unequal access to resources (overview)

### 3.2.2 Economic Geography of South Africa

**NOTE:** This section has rotating topics allocated for the next four (4) years. Although these topics must be covered as specified it does not necessarily mean that the particular topic will be examined.

#### The structure of the economy

- Economic sectors – definitions and examples:
  - Primary
  - Secondary
  - Tertiary
  - Quaternary
- Contribution of economic sectors to the South African economy:
  - Definition, interpretation of, value and contribution to, GNP and GDP
  - Employment (linked to different sectors, interpretation and application)
- Use/Interpretation of statistical and graphical information

#### Agriculture

- Contribution of agriculture to the South African economy
- Small-scale farming and large-scale farming: definition, characteristics and interpretation
- Main products produced (definition and examples)- home market and export market

**NOTE:** Instruction at the beginning of the section on Economic Geography

EXAMINATION	YEAR	PRESCRIBED AGRICULTURAL PRODUCT
November 2021 May/June 2022	2021/22	Beef
November 2022 May/June 2023	2022/23	Sugar Cane
November 2023 May/June 2024	2023/24	Maize

- Areas of production on a map, identification and interpretation
- Apply factors that favour and hinder agriculture in South Africa to the product studied
- Contribution of prescribed product to the South African economy
- Food security:
  - Definition of food security and food insecurity
  - Importance of food security in South Africa
  - Factors influencing food security in South Africa
  - Strategies to improve food security in South Africa
- Case studies related to food security and food insecurity in South Africa.

**Mining**

- Contribution of mining to the South African economy
- Significance of mining to the development of South Africa
- A case study of one of South Africa's main minerals produced

**NOTE:** Instruction at the beginning of the section on Economic Geography

EXAMINATION	YEAR	PRESCRIBED MINERAL
November 2021 May/June 2022	2021/22	Coal
November 2022 May/June 2023	2022/23	Gold
November 2023 May/June 2024	2023/24	Platinum

- Location of mineral studied on a map, identification and interpretation
- Apply factors that favour and hinder mining in South Africa to the main minerals above
- Contribution of prescribed mineral to the South African economy

**Secondary and Tertiary Sectors**

- Contribution of secondary sector to the South African economy
- Types of industries (definition, description, examples and characteristics):
  - Heavy and light
  - Raw material orientated
  - Market orientated
  - Footloose industries
  - Ubiquitous industries
  - Bridge (Break of bulk)
- Factors favouring industrial development in South Africa:
  - Raw materials
  - Labour supply
  - Water supply
  - Energy supply
  - Transport
  - Political intervention
  - Competition
  - Trade
- Factors hindering industrial development in South Africa:
  - Over-concentration
  - Transport
  - Air pollution
  - Labour supply
  - Water supply
  - Energy supply
  - Raw materials
  - Political interference
  - Competition
  - Trade
- South Africa's core/main industrial regions:
  - Gauteng (PWV), Durban-Pinetown, Port Elizabeth-Uitenhage, South-western Cape
  - Location of the above FOUR core industrial regions on a map



**NOTE:** Instruction at the beginning of the section on Economic Geography

EXAMINATION	YEAR	PRESCRIBED CORE INDUSTRIAL REGION
November 2021/ May/June 2022	2021/22	Gauteng(PWV)/South-western Cape
November 2022/ May/June 2023	2022/23	Gauteng(PWV)/Durban-Pinetown
November 2023/ May/June 2024	2023/24	Gauteng(PWV)/Port Elizabeth-Uitenhage

**NOTE:** The TWO prescribed core industrial regions stipulated for each year should be taught.

#### Key facts to concentrate on with regards to the prescribed core industrial areas

- Map showing their location
- Factors influencing the location of the prescribed industrial region
- Main industrial activities in the prescribed industrial region
- Factors that favour and hinder the continued success of the prescribed core industrial regions studied
- Economic and social impacts of the prescribed core industrial region
- Case studies to illustrate the above

#### Strategies for Industrial Development

- Overview of apartheid industrial development strategy:
  - The Good Hope Plan
- Overview of post-apartheid industrial development strategies:
  - The Reconstruction and Development Programme (RDP)
  - Growth, Employment and Redistribution (GEAR)
- Industrial Development Zones (IDZs) and spatial development Initiatives (SDIs):
- Case studies of two Industrial Development Zones (IDZs) and Spatial Development initiatives (SDIs):

**NOTE:** Instruction at the beginning of the section on Economic Geography

EXAMINATION	YEAR	IDZ	SDI
November 2021 May/June 2022	2021/22	Saldanha Bay	West Coast
November 2022 May/June 2023	2022/23	Dube Trade port	Maputo Corridor
November 2023 May/June 2024	2023/24	Coega	Wild coast

**NOTE:** The ONE prescribed IDZ and SDI stipulated for each year should be taught

#### Key facts to concentrate on with regard to the prescribed IDZ's and SDI's

- Definition and difference between an IDZ and SDIs
- Map showing the location of prescribed IDZs and SDIs
- Factors influencing the location of the prescribed IDZs and SDIs
- Main industrial activities
- Factors that favour and hinder the development of the prescribed IDZs and SDIs
- Economic and social impacts
- Case studies to illustrate the above

- Industrial centralisation and decentralisation
  - Definition, causes, advantages/disadvantages and solutions
- Contribution of tertiary activities to the South African economy:
  - Definition of tertiary activities
  - Examples of tertiary activities
  - The role of trade (local and international) in economic development (definition, balance of trade, trade agreements)
  - The role of transport (public/private) in economic development
  - Interpretation of graphs and tables on tertiary activities
  - Case studies of contribution of tertiary activities to the South African economy

### The informal sector

- Concept of informal sector employment
- Characteristics of informal sector employment
- Reasons for high informal sector employment in South Africa
- Challenges facing South Africa's informal sector
- Importance/Role of the informal sector in the economy
- Strategies for strengthening the informal sector
- Case studies to illustrate the above in the South African context

### 3.2.3 Geographical Skills and Techniques

#### (Topographic map and Orthophoto map reading and interpretation)

#### Mapwork Techniques

- Contour lines, contour interval and height and conventional signs
- Compass direction
- True bearing
- Magnetic declination and magnetic bearing
- Map scale – types of scales and comparing the scales of topographic maps, orthophoto maps and aerial photographs
- Calculating straight-line distance in reality
- Calculating area of regular features
- Map reference numbers/Map index
- Alphanumeric reference/Grid reference
- Map coordinates/Fixing position – stating the coordinates
- Calculation and interpretation of gradient
- Cross-sections – drawing of cross-sections, indicating position of features on cross-sections and identifying features represented by cross-sections
- Intervisibility
- Calculating vertical exaggeration

#### Topographic Maps

- Use of 1 : 50 000 topographic maps:
  - To identify and interpret physical features, e.g. relief, drainage, climate and vegetation and how they influence settlement and land-use
  - To identify and interpret cultural features, e.g. settlement, land-use and transport networks
- Application of Grade 12 Paper 2 content on Settlement and Economic Geography to mapwork
- Interpreting of settlement and economic statistics, graphs and tables that are related to the 1 : 50 000 topographic map and the 1 : 10 000 orthophoto map being assessed



**Aerial Photographs and Orthophoto Maps**

- Oblique and vertical aerial photographs – identifying landforms and features
- Use of size, shape, tone, texture, shadow and patterns to identify features and activities on photographs and orthophoto maps
- Orientation of orthophoto map with topographic maps
- Compare orthophoto map to topographic maps

**Geographic Information Systems (GIS)**

- GIS (definition)
- Components of GIS
- Sources of information for GIS
- Concepts (definition, identification and application) of:
  - Remote sensing
    - Resolution
    - Pixels
  - Spatial resolution
  - Spatial and attribute data
  - Vector and raster data
  - Spatial objects
    - Points/Nodes
    - Lines
    - Area/Polygons
- Data layering/thematic layering of information
- Data layers (identification and interpretation)
- Data manipulation and analysis:
  - Data manipulation
  - Data integration
  - Buffering
  - Querying
  - Statistical analysis
- Data standardisation
- Data sharing
- Data security
- Application of GIS by the:
  - Government
  - Private sector
- Developing a 'paper GIS' from existing maps, photographs and other sources of information on layers of tracing paper
- Identifying and interpreting concepts using given data such as satellite images, topographic maps, orthophoto maps, aerial photographs, pictures and statistics indicated on graphs and tables



**3.3 STRUCTURE OF EXAMINATION QUESTION PAPER****3.3.1 Details of question papers**

1. Each paper carries 150 MARKS, assessing both theory and mapwork.
2. The duration of each paper is 3 HOURS.
3. The two papers must NOT be written on the same day.
4. Each paper comprises of 3 questions which are ALL COMPULSORY:  
Questions 1 and 2 are found in SECTION A and Question 3 in SECTION B.  
SECTION A:
  - Questions 1 and 2 are based on theory for 60 marks each.
  - Each of the two questions will begin with a variety of short/objective type questions for 15 marks. The format of these questions will vary. This is followed by 3 subquestions of 15 marks each.
  - Each of the two questions will include a paragraph type question for 8 marks, i.e.  $(4 \times 2) = (8)$ . The paragraph question may NOT be answered in point form and will require insight and analytical thinking skills. The paragraph question can be in any of these subquestions
  - A variety of source materials will be used, e.g. satellite images, synoptic weather charts, graphs, statistics, tables, info-graphics, sketch maps, cartoons, photographs, case studies and newspaper articles.
  - Candidates must be able to illustrate all geographical concepts taught. Illustrations could be simple labelled diagrams/sketches or detailed annotated (with explanatory labels) diagrams/sketches.
  - Please note in the 15 mark subquestions content tested could cover more than one aspect within a broad topic.

## SECTION B:

**NOTE: A 1:50 000 topographic map extract and a 1:10 000 orthophoto map extract will be used for testing purposes**

- Question 3 is based on mapwork, i.e. geographical skills and techniques for 30 marks and will be divided as follows:
    - Map skills and calculations (10 marks)
    - Map interpretation (12 marks)
    - GIS (8 marks)
  - **NOTE:** Multiple choice questions can be integrated in all of the above
5. The following instructions and information will appear on the second page of the question paper. Learners should be advised of these instructions from the beginning of the year, as many learners do not adhere to these instructions:
    - The question paper consists of THREE questions.
    - ALL diagrams are included in the annexure.
    - Where possible, illustrate your answers with labelled diagrams.
    - Leave a line between subsections answered.
    - Start EACH question at the top of a NEW page.
    - Number your answers correctly according to the numbering system used in this question paper.
    - Do NOT write in the margins of the ANSWER BOOK.
    - Write neatly and legibly.
    - You may use a magnifying glass
    - The unit of measurement must be given in the final answer, where applicable, e.g. 10 km, 4 °C, east.

### 3.3.2 Cognitive Levels

The cognitive level rating of both question papers are as follows:

Low order	Middle order	High order
25% (37/38 marks)	50% (75 marks)	25% (37/38 marks)

It is important to note that short objective type questions can also be high-order questions. Paragraph type questions should only be pitched at middle or high-order level as they require analytical and thinking skills.

## 4. GENERAL GUIDELINES FOR MARKING

- Definitions should be marked looking at the concept and not verbatim as given in textbooks. Mark allocation is (1 x 2) (2)
- Allocate ticks next to the fact/information for which marks are awarded. One tick per mark awarded, e.g. where double marks are allocated there must be two ticks.
- The entire answer must be marked. Do not look at the first facts/information provided and allocate marks, e.g. 0 (zero). There may be correct facts/information later in the answer and marks must be awarded for those.
- Read the answer thoroughly. Correct answers may be provided that are not in the memorandum/marking guidelines. Candidates must be awarded marks for these answers.
- When marking paragraph type answers, ensure that candidates write in full sentences and not answer in point form.
- NO negative marking is allowed.
- Calculations:
  - **NOTE:** Calculations do not necessarily have to be tested to the full allocation of marks given in the breakdown
    - Marks may be awarded for providing the correct formula, if the formula is not given.
    - Marks will be awarded for the correct substitution of values in the formula.
    - Marks will be awarded for calculations.
    - When an error is made during substitution into a correct formula, a mark will be awarded for the correct formula, but no further marks will be given.
    - Marks will be awarded for the correct answer.
    - If the answer is incorrect, the calculation must be marked from the top and marks must be awarded up to the point where the candidate calculated incorrectly.
    - If a unit is required, e.g. kilometres, the answer must be marked as incorrect if it is not provided. However, marks must be awarded for all the steps in the calculation leading up to the answer.
    - Marks are only awarded for a formula if a calculation has been attempted, i.e. substitutions have been made or a numerical answer is given.
    - All calculations, when not specified in the question, must be calculated to a minimum of ONE decimal place.
    - If a final answer to a calculation is correct, full marks may be awarded if the candidate shows the formula, substitutions and calculation steps, and the unit of measurement is indicated. If the candidate writes the answer only, marks will be awarded for the answer only.

- **Mark allocations suggested for Grade 12 calculations:**
  - Distance (2 marks) – as per distance calculation in average gradient
    - ✓ for correct measurement on map (cm/mm)
    - ✓ for correct answer if correct measurement is indicated (m/km)
  - Area (5 marks)
    - ✓ for correct measurement of length on map (cm/mm)
    - ✓ for correct measurement of breadth on map (cm/mm)
    - ✓ for correct length in reality
    - ✓ for correct breadth in reality
    - ✓ for correct answer if correct measurement is indicated ( $m^2/km^2$ )
  - Average gradient (5 marks)
    - ✓✓ for correct vertical interval
    - ✓ for correct measurement of map distance between two points
    - ✓✓ for correct horizontal equivalent
    - ✓✓ for correct substitution of values into formula
    - ✓✓ for correct answer expressed as a ratio
  - Vertical exaggeration (5 marks)
    - ✓✓ for correct conversion to the unit
    - ✓ for correct representation of vertical scale as a ratio
    - ✓✓ for correct horizontal scale given as a ratio
    - ✓✓ for correct substitution of values into formula – can be a ratio scale or a fraction scale
    - ✓✓ for correct answer and unit (in case of vertical exaggeration the unit is times, e.g. 20 times)
  - Magnetic declination (5 marks)
    - ✓✓ for correct difference in years
    - ✓✓ for correct mean annual change
    - ✓✓ for correct total annual change
    - ✓✓ for correct calculation with correct unit (magnetic declination of year map was printed + (✓) total annual change)
  - Magnetic bearing (5 + 2 marks)
    - The five marks as indicated above
    - ✓✓ for correct measurement of true bearing
    - ✓✓ for correct answer

## 5. CONCLUSION

This Examination Guidelines document is meant to articulate the assessment aspirations espoused in the CAPS document. It is therefore not a substitute for the CAPS document which teachers should teach to.

Qualitative curriculum coverage as enunciated in the CAPS cannot be over-emphasised.

**ANNEXURE A****ACTION WORDS (VERBS/COMMAND WORDS) FOR ASSESSMENT**

<b>VERB</b>	<b>MEANING</b>	<b>HOW TO ANSWER</b>
<b>Account</b>	to answer for - explain the cause of - so as to explain why	Full sentences
<b>Analyse</b>	to separate, examine and interpret critically	Full sentences
<b>Annotate</b>	to add explanatory notes to a sketch, map or drawing	Add labels to drawings
<b>Appraise</b>	to form an opinion how successful/effective something is	Full sentences
<b>Argue</b>	to put forward reasons in support of or against a proposition	Full sentences
<b>Assess</b>	to carefully consider before making a judgment	Full sentences
<b>Categorise</b>	to place things into groups based on their characteristics	One-word answers/phrases
<b>Classify</b>	to divide into groups or types so that things with similar characteristics are in the same group - to arrange according to type or sort	One-word answers / phrases
<b>Comment</b>	to write generally about	Full sentences
<b>Compare</b>	to point out or show both similarities and differences	Full sentences
<b>Construct</b>	to draw a shape	A diagram is required
<b>Contrast</b>	to stress the differences, dissimilarities, or unlikeness of things, qualities, events or problems	Full sentences
<b>Create</b>	to develop a new or original idea	Full sentences
<b>Criticise</b>	to make comments showing that something is bad or wrong	Full sentences
<b>Decide</b>	to consider something carefully and decide what should be done	Full sentences
<b>Defend</b>	to say things to protect something	Full sentences
<b>Define</b>	to give the concise and clear meaning	Full sentences
<b>Devise</b>	to invent a method to do something	Full sentences
<b>Demonstrate</b>	to show or make clear - to illustrate and explain - to prove by reasoning and evidence - examples can be given	Full sentences
<b>Describe</b>	to list the main characteristics of something - give an account of	Full sentences
<b>Develop</b>	to successfully develop and create a new method/idea	Full sentences
<b>Differentiate</b>	to show the difference between things	Full sentences
<b>Discriminate</b>	to recognise the difference between things	Full sentences
<b>Discuss</b>	to examine by means of argument, presenting both sides and reaching a conclusion	Full sentences
<b>Distinguish</b>	to recognise the difference between things	Full sentences
<b>Draw</b>	to show by means of a sketch	A diagram is required
<b>Evaluate</b>	to make an appraisal or express an opinion concerning the value - to define, analyse and discuss	Full sentences
<b>Examine</b>	to look at something carefully - to analyse and discuss	Full sentences
<b>Explain</b>	to make clear, interpret and spell out the material you present	Full sentences

VERB	MEANING	HOW TO ANSWER
<b>Find</b>	to make a formal decision about something	Full sentences
<b>Formulate</b>	to express an idea/opinion in a carefully organised way	Full sentences
<b>Give</b>	to state facts without discussions	One-word answers
<b>Identify</b>	to give the essential characteristics of - to name	One-word answers
<b>Illustrate</b>	to show what something is like - to show that something is true	Full sentences
<b>Interpret</b>	to give an explanation of - to give the meaning of	Full sentences
<b>Investigate</b>	to try to find the facts about something	Full sentences
<b>Justify</b>	to prove or give reasons for decisions or conclusions, using logical argument	Full sentences
<b>List</b>	to write an itemised series of concise statements	One-word answers
<b>Locate</b>	to find the exact place where something is	One-word answers
<b>Mention</b>	providing relevant facts	Full sentences
<b>Name</b>	to state something - give, identify or mention	One-word answers
<b>Outline</b>	give a summary, using main points and leaving out minor details	Full sentences
<b>Plan</b>	to think carefully about a series of actions that you need to take in order to achieve something	Full sentences
<b>Predict</b>	to say what you think will happen - to foretell - to say in advance	Full sentences
<b>Prioritise</b>	to place in order of importance	One-word answers
<b>Propose</b>	to suggest a plan - to make a formal suggestion	Full sentences
<b>Provide</b>	to state facts without discussions	Full sentences/ one-word answers
<b>Question</b>	to have or express doubts about something	Full sentences
<b>Rate</b>	to consider that something has a particular quality or achieved a particular quality/level	Full sentences/one-word answers
<b>Recall</b>	to remember something	Full sentences/one-word answers
<b>Recognise</b>	to accept that something is true or important - to give approval to something	Full sentences/one-word answers
<b>Recommend</b>	to advise that something should be done	Full sentences
<b>Report</b>	to produce an official statement or written document	Full sentences
<b>Select</b>	to choose something from a greater whole	One-word answers
<b>Sketch</b>	to illustrate with a simple drawing	A diagram is required
<b>Solve</b>	to find a solution to something that is causing difficulties	Full sentences
<b>State</b>	to present information plainly without discussion	One-word answers
<b>Suggest</b>	to propose an explanation or solution	Full sentences
<b>Show</b>	to make clear - to point out - to explain	Full sentences
<b>Support</b>	to show that an idea/statement is true	Full sentences
<b>Tabulate</b>	to group like terms or activities under specific headings	One-word answers/phrases
<b>Tell</b>	to recognise something as a result of knowledge	One-word answers
<b>Test</b>	to examine something to find out if it is satisfactory or has a specific quality	Full sentences
<b>Use</b>	to do something using a specific skill or method	Full sentences
<b>Value</b>	to consider the importance/worth of something	Full sentences
<b>Verify</b>	to check/prove that something is correct	Full sentences
<b>Write</b>	to create a formal document	Full sentences