CCEA GCE Specification in Geography

For first teaching from September 2008
For first award of AS Level in Summer 2009
For first award of A Level in Summer 2010

Subject Code: 3910

geography
Foreword

This booklet contains CCEA’s Advanced Subsidiary (AS) and Advanced GCE Geography specification for first teaching from September 2008.

The AS is the first part of the full advanced GCE course and will be assessed at a standard appropriate for candidates who have completed the first half of the full Advanced GCE course.

The full Advanced GCE comprises the AS and the second half of the Advanced GCE course referred to as A2. However, the AS can be taken as a “stand-alone” qualification without progression to A2.

The A2 will be assessed at a standard appropriate for candidates who have completed a full advanced GCE course and will include synoptic assessment and an element of stretch and challenge.

The Advanced GCE award will be based on aggregation of the marks from the AS (50%) and the A2 (50%).

An A* will be awarded to the candidates who attain an overall grade A in the qualification and an aggregate of at least 90% of the uniform marks across the A2 units.
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1 Introduction

This specification sets out the content and assessment details for our Advanced Subsidiary (AS) and Advanced Level (A Level) courses in Geography. This specification is for first teaching from September 2008. You can view and download the latest version of this specification from our website at www.ccea.org.uk.

Students can take the AS course as a final qualification or as the first half of the A Level qualification. Students who wish to obtain a full A Level qualification must also complete the second half of the course, which is referred to as A2. We will make the first AS awards for this specification in 2009 and will make the first A Level awards in 2010.

The specification builds on the broad objectives of the revised Northern Ireland Curriculum. It is also relevant to key curriculum concerns in England and Wales.

This specification contributes to spiritual, moral and cultural education by requiring students to study issues in physical and human geography. It also contributes to environmental and sustainable development education by requiring students to develop an understanding of processes and issues in the human environment. Furthermore, the specification has both a European and global dimension requiring students to study geographical processes and their outcomes in places and contexts at a range of scales from local to global.

1.1 Aims

Students should be encouraged to:

- develop and apply their understanding of geographical concepts and processes to understand and interpret our changing world;
- develop their awareness of the complexity of interactions within and between societies, economies, cultures and environments at scales from local to global;
- develop as global citizens who recognise the challenges of sustainability and the implications for their own and others’ lives;
- improve as critical and reflective learners aware of the importance of attitudes and values, including their own;
- become adept in the use and application of skills and new technologies through their geographical studies both in and outside the classroom; and
- be inspired by the world around them, gain enjoyment and satisfaction from their geographical studies and understand their relevance.
1.2 Key features
There are four assessment units each with 25-50 percent weighting:

- **AS 1**: Physical Geography with fieldwork skills
- **AS 2**: Human Geography with skills and techniques
- **A2 1**: to include two sections:
  (i) Human **Interactions**: three options – students need to study two from:
    - Impact of Population Change;
    - Issues in Ethnic Diversity;
    - Planning for Sustainable Settlements.
  (ii) Global Issues: the study of global debates and their context – students need to study one from:
    - The Global Warming Debate;
    - The Nuclear Debate;
    - The GM Crops Debate;
    - The Ecotourism Debate.
- **A2 2**: to include two sections:
  (i) Physical Geography: three options – students need to study two from:
    - Fluvial and Coastal Environments;
    - Nature and Sustainability of Tropical Ecosystems;
    - The Dynamic Earth.
  (ii) Decision-Making
- Stretch and challenge takes the form of open-ended questions on A2 1 and A2 2.
- The study of this specification provides a sound basis for progression to higher education.
- Exemplar schemes of work, a resource list and specimen papers/mark schemes accompany the specification.

1.3 Prior attainment
We recommend that students enrol for this qualification in geography following the completion of a course of study for GCSE Geography. However, it is possible for students to enrol without any prior learning or attainment in geography.

1.4 Prohibited combinations
In any one series of examinations, a student may not take examinations on this specification together with examinations on another specification of the same title.

Every specification is assigned to a national classification code indicating the subject area to which it belongs.

The classification code for this specification is 3910.
## 2 Specification at a Glance

The table below summarises the structures of the AS and A Level courses:

<table>
<thead>
<tr>
<th>Unit</th>
<th>Assessment Format</th>
<th>Duration</th>
<th>Weightings</th>
<th>Availability</th>
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<tbody>
<tr>
<td><strong>AS 1: Physical Geography</strong></td>
<td>External examination paper (to include an assessment of fieldwork)</td>
<td>1 hour 30 minutes</td>
<td>50% of AS</td>
<td>January and Summer</td>
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<tr>
<td><strong>including fieldwork skills</strong></td>
<td></td>
<td></td>
<td>25% of A Level</td>
<td></td>
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<tr>
<td><strong>AS 2: Human Geography</strong></td>
<td>External examination paper (to include an assessment of skills and techniques)</td>
<td>1 hour 30 minutes</td>
<td>50% of AS</td>
<td>January and Summer</td>
</tr>
<tr>
<td><strong>including skills and techniques</strong></td>
<td></td>
<td></td>
<td>25% of A Level</td>
<td></td>
</tr>
<tr>
<td><strong>A2 1: Human Interactions</strong></td>
<td>External examination paper</td>
<td>1 hour 30 minutes</td>
<td>25% of A Level</td>
<td>January and Summer</td>
</tr>
<tr>
<td><strong>and Global Issues</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>A2 2: Physical Geography</strong></td>
<td>External examination paper (to include a decision-making exercise)</td>
<td>2 hours 30 minutes</td>
<td>25% of A Level</td>
<td>Summer only</td>
</tr>
<tr>
<td><strong>and Decision-Making</strong></td>
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3 Subject Content

Skills and techniques

The required skills and techniques are listed below. These skills and techniques should be incorporated into the teaching of the subject content. Where possible, students should be encouraged to use Geographical Information Systems (GIS) and the internet. They should also be encouraged to use ICT for collecting, sorting, recording and presenting geographical information.

Through their geographical studies, AS students are required to become conversant with the following skills and techniques:

(a) Data collection

Students need to know how to behave safely in the field and should be able to demonstrate how their planning involves discussion of strategies to avoid accident or injury while collecting data. They should also be able to describe contingencies they have made for dealing with accidents while in the field. In GCE Geography, data collection includes:

- the observation and collection of primary data at first hand from physical and human environments using equipment, surveys or questionnaires;
- the analysis and interpretation of public maps at a range of scales and of photographs, remotely sensed images and data, both quantitative and qualitative, from secondary sources.

(b) Data processing

Students must also develop their data processing skills. This includes developing an ability to:

- map distributions, densities and flows using dot, flow line, choropleth and isoline images;
- draw annotated sketch maps;
- construct, analyse and interpret scatter graphs, line graphs, bar graphs pie charts, proportional graphs and triangular graphs (NB: all mapping, drawing and graphical techniques should follow geographical conventions with regard to title, key, scale, frame, direction arrow);
- carry out sampling methods including: random, systematic, stratified (point, line and quadrat) and pragmatic; and
- use methods of statistical analysis including: mean, median, mode and range, Spearman’s rank correlation and nearest neighbour analysis.

In addition, A2 students should develop the following:

- Methods of statistical analysis including Chi-squared and Location Quotient.
Course structure
The AS course is divided into two units: AS 1 and AS 2. Students following the A Level course must study two further units: A2 1 and A2 2. The content of each of these units is set out below.

3.1 Unit AS 1: Physical Geography
This unit comprises two sections.

Section A
Section A concerns skills relating to fieldwork. This section requires students to:

- identify geographical questions and issues, select appropriate sources and methods, and establish effective approaches to inquiry in their geographical studies;
- show awareness of fieldwork safety both in preparation and in the field;
- identify, select and collect, using a range of techniques, quantitative and qualitative evidence from primary and secondary sources;
- organise, record and present evidence in cartographic and diagrammatic form, making use of ICT and GIS where appropriate;
- describe, analyse, evaluate and interpret evidence and draw conclusions; and
- evaluate their methods and approaches to enquiry and the limitations of the evidence collected and conclusions drawn.

Topic for investigation
Students should choose an issue, hypothesis or question for investigation related to or arising from study as part of Units 1 or 2. They should, individually, in small groups or as a class, identify appropriate sources and methods for the collection of data. These must be from both primary and secondary sources (e.g., databases, maps, texts, census data). Census data is acceptable as primary or secondary data.

The written report and table of data
Following the gathering of data, students must provide a summary statement of approximately 100 words and a table of data. The summary statement must include:

- title;
- details of the location of the study (a map may be included if appropriate);
- a statement of the aims and hypotheses to be tested or questions to be answered.

Candidates must not address any other elements of the fieldwork investigation in this summary statement. Questions will be set which require the candidate to draw on their knowledge and experience of fieldwork skills as detailed above from planning to drawing conclusions and evaluation.

The table of data must include:

- Primary/secondary data essential to investigate the aim;
- Data collected for all variables relevant to the proposed aim/purpose of the study outlined in the report;
• Quantitative data (numerical scores) essential to allow for graphical representation and statistical analysis (however qualitative data may be included if relevant);
• Normal conventions including a title with all variables clearly stated along with precise units of measurement;
• The inclusion of raw data only (averages or other statistical calculations should not be included).

It is expected that ICT will be used for the presentation of both the summary report and the table of data.

The summary report and table of data must be accompanied by a completed candidate record sheet.

Section B

This section is concerned with physical processes and systems and human interaction with them. It also requires the study of those processes, systems and interactions at a range of scales and in a range of places. The study of this section provides a range of opportunities to use Geographical Information Systems and the internet; for example to investigate aspects of drainage basins (size and shape) or to follow the track of weather systems including hurricanes.

Study of this section should enable students to demonstrate a knowledge and understanding of:

• natural systems, their dynamic nature and the interactions between them;
• processes and forms associated with fluvial, biological and meteorological activities in different environments, over time;
• the effects of human activities on natural systems and the opportunities, challenges and constraints that face people in different places;
• the need for management strategies governed by sustainability and consideration of the direct and indirect effects of human interaction with the earth and the atmosphere.
### Elements

#### 1(a) Processes and features in fluvial environments

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<tr>
<th>Learning Outcomes</th>
<th>Spatial Context Requirement</th>
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<tr>
<td>Students should be able to:</td>
<td>(i)-(iv) general reference to places for illustration purposes only</td>
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<tr>
<td>(i) understand that the drainage basin is an open system involving inputs, outputs, stores and transfers of energy and matter;</td>
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<td>(ii) explain how the following factors affect discharge and the storm hydrograph: relief, basin size and shape, soil, geology, land use, drainage density and precipitation;</td>
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<tr>
<td>(iii) understand river processes: including erosion (abrasion/corrosion, attrition, hydraulic action, solution/corrosion); transportation; (suspension, solution, saltation, traction); deposition (Hjulstrom curves); and</td>
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<tr>
<td>(iv) explain the formation of river landforms: waterfalls, meanders, pools and riffles, oxbow lakes, floodplains, levees, deltas (arcuate and bird’s foot).</td>
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<tr>
<td>1(b) Human interaction with the fluvial environment</td>
<td>Students should be able to analyse the causes of floods and their effects on people, property and the land.</td>
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<tr>
<td>2(a) The ecosystem as an open system</td>
<td>Students should be able to demonstrate knowledge and understanding of the ecosystem as an open system to include: (i) biotic and abiotic components; (ii) inputs, outputs, transfers and stores of energy and matter; (iii) trophic structure, autotrophs, heterotrophs, decomposers, trophic levels, trophic pyramid; and (iv) general cycling of nutrients between soil, litter and biomass; nutrient cycling model.</td>
</tr>
<tr>
<td>2(b) Plant succession</td>
<td>Students should be able to demonstrate knowledge and understanding of plant succession to include seral stages, climatic climax vegetation, plagioclimax vegetation.</td>
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</table>
|2(c) Human interaction with ecosystems | Students should be able to:  
(i) demonstrate knowledge and understanding of:  
- the characteristics of mollisols/chernozems;  
- the characteristics of mid-latitude grasslands; and  
(ii) evaluate the impact of human activity on and attempts to manage an area of mid-latitude grassland (monoculture, soil erosion and soil conservation). | (i)-(ii) Study of the impact of human activity and attempts to manage an area of mid-latitude grassland, eg N. American Prairies (national/regional scale). |
|3(a) Atmospheric processes | Students should be able to demonstrate knowledge and understanding of:  
(i) the global energy balance including vertical and horizontal heat transfers including the role of ocean currents;  
(ii) the factors which control wind speed and direction;  
(iii) the general circulation of atmosphere including spatial variations in pressure, resulting surface winds and the tri-cellular model;  
(iv) the distinction between absolute and relative humidity; and  
(v) dew point temperature and the various causes of precipitation. | (i)-(iii) study of global patterns of precipitation and surface temperature, pressure and winds (global scale study). |
### Elements

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<tr>
<td><strong>3(b) Mid-latitude Weather systems</strong></td>
<td>(ii) and (iv) study of the effects of low and high pressure systems on the weather at the small or regional scale, eg Northern Ireland.</td>
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<tr>
<td>Students should be able to:</td>
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<tr>
<td>(i) demonstrate knowledge and understanding of mid-latitude frontal depressions, their structure, formation and associated air masses;</td>
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<td>(ii) analyse the impact of frontal depressions on people;</td>
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<td>(iii) understand the formation of anticyclones and their associated weather; and</td>
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<td>(iv) contrast the impacts of winter and summer anticyclones on people.</td>
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<tr>
<td><strong>3(c) Extreme weather events</strong></td>
<td>For (ii) and (iii) A study of the effects of one hurricane/tropical cyclone, eg Hurricane Katrina (2005) (national/regional scale).</td>
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<tr>
<td>Students should be able to:</td>
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<tr>
<td>(i) understand the formation and structure of hurricanes;</td>
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<tr>
<td>(ii) analyse the effects of hurricanes on people and property; and</td>
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<td>(iii) evaluate the protective measures used to reduce loss of life and damage to property.</td>
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3.2 Unit AS 2: Human Geography

This unit comprises two sections.

**Section A**

This section is concerned with skills and techniques. Students are required to respond to data of a quantitative and qualitative nature provided from secondary sources. A detailed list of the necessary skills and techniques is set out on page 6.

**Section B**

This section is concerned with human processes, systems and outcomes and how these change both spatially and temporally. It requires the study of these processes, systems and outcomes in a range of places, at a variety of scales and must include places in various states of development. The study of this section provides a range of opportunities to utilise Geographical Information Systems and the internet; for example to investigate the nature of inner city areas.

Study of this section should enable students to:

- understand basic issues in human geography, as expressed through the themes of population, settlement and development;
- understand that the demographic characteristics of any area are the result of the relationship between births, deaths and migration;
- describe and explain population distribution in relation to physical and human factors;
- understand the complex relationships that exist between urban and rural areas;
- understand the need for management and the role of development agencies in rural areas;
- understand that urban areas present challenges in MEDCs and LEDCs;
- appreciate the complexities in measuring development;
- gain awareness and understanding of regional differences in development; and
- understand that LEDCs are affected positively and negatively by issues such as globalisation, aid and trade.

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<th>Elements</th>
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<th>Spatial Context Requirement</th>
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</thead>
<tbody>
<tr>
<td>1(a) Population</td>
<td>Students should be able to distinguish between:</td>
<td>For (i) and (ii) contrasts between MEDCs and LEDCs in terms of the reliability of data and how it is collected.</td>
</tr>
<tr>
<td>data</td>
<td>(i) national census taking; and</td>
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<td></td>
<td>(ii) vital registration.</td>
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<tr>
<td>1(b) Population structure</td>
<td>Students should be able to: (i) understand components of population change – and define crude birth rate, crude death rate, natural increase/decrease and migration balance; (ii) analyse population pyramids including comparisons over time and space; and (iii) understand the economic, social and political implications of dependency ratios in MEDCs and LEDCs.</td>
<td>For (ii) one national case study.</td>
</tr>
<tr>
<td>1(c) Population and resources</td>
<td>Students should be able to: (i) explain the relationship between population distribution and resources.</td>
<td>(i) one national case study of population distribution</td>
</tr>
<tr>
<td>2(a) Challenges for rural environments</td>
<td>Students should be able to demonstrate knowledge and understanding of: (i) issues in the rural urban fringe including greenfield developments, suburbanisation, counterurbanisation and transport infrastructure; and (ii) issues in remote rural environments including population change, service provision including transport.</td>
<td>For (i) and (ii) general reference to places for illustration purposes only</td>
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</table>
### Learning Outcomes

#### 2(b) Planning issues in rural environments

- Students should be able to explain how:
  1. the countryside is managed for conservation, recreation and tourism eg AONB, National Parks, SSIs; and
  2. economic re-generation is delivered to remote rural areas by regional development agencies.

#### 2(c) Challenges for the urban environment

- Students should be able to demonstrate knowledge and understanding of:
  1. issues of the inner city in MEDCs including social and economic deprivation in inner cities, re-urbanisation and gentrification; and
  2. issues of rapid urbanisation in LEDCs including informal settlements, service provision and economic activity.

#### 3(a) The nature and measurement of development

- Students should be able to:
  1. explain the problems of defining development;
  2. explain and evaluate two economic, two social and two composite measures of development; and
  3. identify and explain regional contrasts in development.

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### Spatial Context Requirement

- A case study for either (i) those aspects of management that affect one area that is being protected at the local/regional scale eg The Peak District National Park or (ii) one case study of a regional development agency at the local/regional scale, eg Norfolk Development Agency.

- Two urban case studies to illustrate these issues: one from a MEDC, eg Belfast, and one from LEDC, eg Rio de Janeiro.

- For (i) and (ii) general reference to places to illustrate global contrasts.

- For (iii) one case study at the national scale which demonstrates distinct regional variations in development.
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<tbody>
<tr>
<td>3(b) Issues of development</td>
<td>Students should be able to demonstrate knowledge and understanding of:</td>
<td>For (i) and (ii) a case study at the national scale of those issues that affect, positively and/or negatively, the development of one LEDC.</td>
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<td>(i) colonialism, neo-colonialism (dependency); and</td>
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<td>(ii) globalisation, aid, trade and debt.</td>
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</table>
3.3 Unit A2 1: Human Interactions and Global Issues
This unit comprises two sections.

Section A: Human Interactions
This section comprises three optional units from which students must choose two. Each option provides opportunities for the use of Geographical Information Systems and the internet.

Option A: Impact of Population Change
This option should enable students to:

- understand that the demographic characteristics of any area are the result of the relationship between births, deaths and migration;
- appreciate that migration is a complex process which gives rise to distinctive streams within and between nations; and
- understand that population policies aim to alter the balance between population and resources within a country.

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<tr>
<th>Elements</th>
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<th>Spatial Context Requirement</th>
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<tbody>
<tr>
<td>1 Natural population change</td>
<td>Students should be able to:</td>
<td>For (i)-(iv): global contrasts</td>
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<tr>
<td></td>
<td>(i) explain fertility and mortality measures, their geographical patterns and trends over time;</td>
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<td></td>
<td>(ii) explain factors influencing fertility and mortality: economic; social; political; cultural; environmental; HIV/AIDS;</td>
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<td></td>
<td>(iii) evaluate the theories and issues of population sustainability put forward by Malthus and Boserup; and</td>
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<td></td>
<td>(iv) demonstrate knowledge and understanding of the demographic transition model and the epidemiological transition.</td>
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<td>Elements</td>
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</table>
| 2 Migration: causes, streams and impacts | Students should be able to:  
(i) explain push/pull processes in migration (economic, social, political, cultural and environmental factors); and barriers to migration;  
(ii) demonstrate knowledge and understanding of migration streams (internal and international), economic migrants: illegal migrants, asylum seekers and refugees;  
(iii) demonstrate knowledge and understanding of migrant characteristics: age; gender; ethnicity; socio-economic status; and  
(iv) demonstrate knowledge and understanding of the implications of migration for service provision, economic activity and social stability. | For (iv) those implications that are relevant to one small-scale case study of out-migration, eg Achill Island, and one small-scale case study of in-migration, eg Dublin or Delhi |
| 3 Population policies | Students should be able to:  
(i) understand fertility and migration policies in relation to: resource balance; economic, social, cultural and moral considerations; and  
(ii) evaluate the impact of the policies. | For (i) and (ii) one national fertility policy, eg China and one national migration policy, eg Canada |
**Option B: Planning for Sustainable Settlements**

This option should enable students to:

- understand the rationale underpinning sustainability;
- appreciate the impact of settlements on the environment;
- understand the processes which put pressure on sustainability within settlements; and
- appreciate the role of people in planning within settlements to make them more efficient and sustainable.

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<tr>
<td><strong>1 Sustainable development</strong></td>
<td>Students should be able to: [(i)](explain sustainable development with reference to social; economic; and environmental considerations; and) [(ii)](demonstrate knowledge and understanding of urban ecological and carbon footprints.)</td>
<td>For (i) and (ii) general reference to places for illustration purposes</td>
</tr>
<tr>
<td><strong>2 Urban land use and planning in relation to sustainability</strong></td>
<td>Students should be able to explain how urban land use and planning relates to sustainability with regard to: [(i)](the management of residential areas: neighbourhood units; defensible space; [(ii)](the re-use of industrial areas: the impact of de-industrialisation; brownfield developments; and) [(iii)](retail change: competition between out-of-town shopping and town centres; environmental and social consequences.)</td>
<td>For (i)-(v) those characteristics that affect or have affected land use and planning issues and policies in one small-scale case study, eg Curitiba or Los Angeles</td>
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<tr>
<td>Elements</td>
<td>Learning Outcomes</td>
<td>Spatial Context Requirement</td>
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</table>
| 2 Urban land use and planning in relation to sustainability contd. | Students should be able to explain how urban land use and planning relates to sustainability with regard to:  
   (iv) leisure areas: sports facilities; open space; urban parks; and  
   (v) the principles and practice of urban conservation; redevelopment, regeneration and restoration. |                                                                           |
| 3 Traffic and transport                      | Students should be able to:  
   (i) demonstrate knowledge and understanding of transport: modes of transport and their impact on sustainability; and  
   (ii) evaluate traffic management strategies including public transport; integrated transport networks; traffic cells; parking policies; pedestrianisation. | For (i) and (ii) one case study of a city, eg Belfast or London          |

**Option C: Issues in Ethnic Diversity**

This option should enable students to:

- understand how ethnicity can be defined;
- understand the processes that create and maintain ethnic diversity;
- evaluate the social, economic and spatial outcomes of ethnic diversity;
- appreciate that conflict can be an outcome of ethnic contact; and
- understand the causes and nature of conflicts and the possible outcomes and responses to conflict.

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<th>Elements</th>
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<th>Spatial Context Requirement</th>
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</table>
| 1 The definition of ethnicity             | Students should be able to explain the factors that define ethnicity:  
   (i) primary factors (race, nationality, language, religion and perceived ethnic identity); and                         | For (i) and (ii) general reference to places for illustration purposes only |
<table>
<thead>
<tr>
<th>Elements</th>
<th>Learning Outcomes</th>
<th>Spatial Context Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> The definition of ethnicity contd.</td>
<td>(ii) secondary factors (social status, residential concentration, age, gender and caste).</td>
<td></td>
</tr>
<tr>
<td><strong>2</strong> The processes which create and maintain ethnic diversity</td>
<td>Students should be able to demonstrate knowledge and understanding of: &lt;br&gt; (i) processes creating ethnic diversity: colonisation, annexation and international migration; &lt;br&gt; (ii) processes maintaining ethnic diversity: segregation; pluralism; multiculturalism; and discrimination; and &lt;br&gt; (iii) the economic, social and spatial outcomes of ethnic diversity.</td>
<td>For (i) the role of those processes that created ethnic diversity in one country &lt;br&gt; For (ii) and (iii) the role of these processes and their outcomes for one ethnically diverse city, eg Jerusalem or Belfast</td>
</tr>
<tr>
<td><strong>3</strong> Ethnic conflict</td>
<td>Students should be able to: &lt;br&gt; (i) explain the causes of ethnic conflict: territorial disputes; historical animosities; racism; sectarianism; cultural conflicts; human rights abuses; unequal distribution of resources and political power; &lt;br&gt; (ii) understand the nature of ethnic conflict including civil disobedience; civil war; terrorism; and &lt;br&gt; (iii) demonstrate knowledge and understanding of outcomes and responses to conflict: social and economic impact; territorial division; autonomy; ethnic cleansing; international intervention and peace processes.</td>
<td>For (i), (ii) and (iii) the role of those processes that affect/have affected one national case study of ethnic conflict, eg Israel or Sri Lanka</td>
</tr>
</tbody>
</table>
Section B: Global Issues
In this section students have an opportunity to investigate global issues and debates relating to our sustainable future. Students are required to study one of the four elements below.

Study of this section gives students the opportunity to:

- conduct fieldwork using primary data collection techniques
- develop an understanding and awareness of the nature of sustainability;
- understand the need for, and desirability of, sustainable solutions to the consequences of modern living;
- appreciate that pollution is a major issue and that different opinions, attitudes and values can be held about its nature;
- recognise that compromise is needed to address pollution problems; and
- appreciate that the development of economic resources has environmental consequences that require careful management.

<table>
<thead>
<tr>
<th>Elements</th>
<th>Learning Outcomes</th>
<th>Spatial Context Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Air pollution</td>
<td>Students should be able to:</td>
<td>For (iv) one small scale case study of air pollution and its management, eg photochemical smog in Los Angeles</td>
</tr>
<tr>
<td></td>
<td>(i) appreciate the problems of defining pollution;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(ii) demonstrate knowledge and understanding of air pollution sources: primary gaseous pollutants (carbon dioxide, methane, sulphur dioxide, CFCs); secondary gaseous pollutants (ozone and PANs);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(iii) use primary data collection techniques to measure air pollution or to investigate local attitudes to/experience of air pollution;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(iv) understand and evaluate strategies to manage environmental and health impacts of air pollution; and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(v) evaluate evidence and express opinions concerning the climate change/global warming debate: should development be curtailed to counteract climate change/global warming?</td>
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</tr>
<tr>
<td>Elements</td>
<td>Learning Outcomes</td>
<td>Spatial Context Requirement</td>
</tr>
<tr>
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<td>---------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>2 Nuclear energy</strong></td>
<td>Students should be able to:</td>
<td>For (i) to (iv): evidence relating to nuclear energy issues in the British Isles. Reference to places other than the British Isles for illustration purposes</td>
</tr>
<tr>
<td>(i)</td>
<td>demonstrate knowledge and understanding of the uses of nuclear energy (power generation, nuclear weapons and medical);</td>
<td></td>
</tr>
<tr>
<td>(ii)</td>
<td>demonstrate knowledge and understanding of radio-active contamination and its impacts: nuclear weapons and their testing; long term health issues; accidents at power stations; nuclear waste and its management;</td>
<td></td>
</tr>
<tr>
<td>(iii)</td>
<td>use primary data collection techniques to investigate local attitudes/issues relating to nuclear energy; and</td>
<td></td>
</tr>
<tr>
<td>(iv)</td>
<td>evaluate evidence and express opinions concerning the nuclear debate: do its actual and potential problems mean nuclear energy should not be used?</td>
<td></td>
</tr>
<tr>
<td><strong>3 Agricultural change and its impact</strong></td>
<td>Students should be able to:</td>
<td>For (i) and (ii) those aspects of agricultural change and management which affect one regional scale case study, eg Brittany</td>
</tr>
<tr>
<td>(i)</td>
<td>demonstrate knowledge and understanding of agricultural change and its impact (technologically advanced inputs and processes, agribusiness, GM crops);</td>
<td></td>
</tr>
<tr>
<td>(ii)</td>
<td>demonstrate knowledge and understanding of the environmental consequences of change and their management (pollution; reduction of biodiversity; maintaining fertility);</td>
<td></td>
</tr>
<tr>
<td>Elements</td>
<td>Learning Outcomes</td>
<td>Spatial Context Requirement</td>
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<tr>
<td>----------</td>
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<td>-----------------------------</td>
</tr>
</tbody>
</table>
| 3 **Agricultural change and its impact contd.** | Students should be able to:  
(iii) use primary data collection techniques to investigate local attitudes/issues relating to agricultural change; and  
(iv) evaluate evidence and express opinions concerning the GM crops debate: do the benefits of GM crops outweigh potential damage to the environment from their use? | For (iv) general reference to places for illustration purposes only |
| 4 **Issues in tourism** | Students should be able to:  
(i) demonstrate knowledge and understanding of the changing nature and characteristics of tourism (pleasure periphery; product cycle, Butler Model);  
(ii) appreciate the consequences of change and how it may be managed (pollution, carrying capacity; competition for resources, social sustainability);  
(iii) use primary data collection techniques to investigate aspects of tourism and its management; and  
(iv) evaluate evidence and express opinions concerning the ecotourism debate: can ecotourism exist? | For (i) and (ii) those aspects of tourism change and management which affect one regional or national scale case study, eg Mallorca or Nepal  
For (iv) general reference to places for illustration purposes only |
3.4 Unit A2 2: Physical Geography and Decision-Making

This unit comprises two sections.

Section A: Physical Geography

This section comprises three optional units from which students must choose two. Each option provides opportunities for the use of Geographical information systems and the internet.

Option A: Fluvial and Coastal Environments

This option should enable students to:

- gain a deeper understanding of physical systems and processes;
- understand the nature of, and reasons for, human use and interaction with fluvial and coastal environments in space and over time;
- understand how and why decisions are made about environmental resources and appreciate that human management control is a feature of the modern world;
- identify the changing methods/strategies used over time as well as the direct and indirect consequences and associated issues within spatial contexts; and
- evaluate the effectiveness of selected schemes, understand how environments and issues change and appreciate the increasing need for sensitivity and sustainability with regard to human activities in natural systems.

<table>
<thead>
<tr>
<th>Elements</th>
<th>Learning Outcomes</th>
<th>Spatial Context Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Human demands on fluvial and coastal environments</td>
<td>Students should be able to understand the increasing demands on coasts, rivers and their valleys: domestic/residential, agricultural, industrial, energy production and leisure activities.</td>
<td>General reference to places for illustration only</td>
</tr>
<tr>
<td>2 River and basin management strategies</td>
<td>Students should be able to demonstrate knowledge and understanding of river and basin management strategies including: (i) the need for and impact of channelisation; (ii) the challenge of creating environmentally sensitive engineering solutions; and (iii) the aims, strategies and impact of basin management processes including beneficial outcomes, conflicts of interest and interdependence between places.</td>
<td>For (i) and (ii) – general reference to places for illustration only (iii) One regional scale case study, eg Colorado river basin</td>
</tr>
</tbody>
</table>
**Elements** | **Learning Outcomes** | **Spatial Context Requirement**
---|---|---
3 Coastal processes, features and management | Students should be able to:  
(i) understand the formation of landforms within dynamic coastal environments: erosional (stacks, arches and headlands) and depositional (spits, tombolos and dunes);  
(ii) evaluate the arguments for and against coastal protection; and  
(iii) understand the nature and impact of hard and soft engineering strategies on the human and physical environment. | For (ii) and (iii) – one regional case study, eg East Sussex or East Anglia

**Option B: The Nature and Sustainability of Tropical Ecosystems**
This option should enable students to:

- further develop their understanding of physical systems and processes at work within the tropical environments of the world;
- enhance their awareness of the distinctiveness of places created by the interaction of natural factors and by human activity within physical systems;
- appreciate the role of human activity in modifying tropical soils and ecosystems as people seek opportunities and face constraints within natural resource systems; and
- understand the significance and effects of changing attitudes and values in geographical issues and appreciate that management strategies increasingly require a consideration of long-term sustainability within fragile environments.

**Elements** | **Learning Outcomes** | **Spatial Context Requirement**
---|---|---
1 Location and climatic characteristics of major tropical biomes | Students should be able to apply knowledge of atmospheric processes (including global circulation, Hadley Cell and ITCZ) to explain the location and climatic characteristics of tropical forests, tropical grasslands and desert zones. | Global scale distribution
<table>
<thead>
<tr>
<th>Elements</th>
<th>Learning Outcomes</th>
<th>Spatial Context Requirement</th>
</tr>
</thead>
</table>
| 2 Ecosystem processes in the tropical forest environment | Students should be able to understand the processes in the Tropical Rain Forest, including:  
(i) biomass and productivity;  
(ii) trophic structure;  
(iii) nutrient cycling; and  
(iv) zonal soil profile and characteristics of an oxisol (ie latosol). | For (i)-(iv) – one regional scale case study of a tropical forest ecosystem, eg Amazon                                                                                                                                                                                                                      |
| 3 Management and sustainability within tropical ecosystems | Students should be able to:  
(i) demonstrate knowledge and understanding of the problem of salinisation in an arid or semi-arid tropical environment – causes, impact on environment and people, possible solutions; and  
(ii) evaluate attempts to achieve sustainable development in the tropical forest ecosystem. | (i) one regional scale case study, eg a region within Pakistan or Sudan  
(ii) one small scale case study, eg SW Cameroon (the Korup project) or within the Peruvian Amazon                                                                                                               |
Option C: The Dynamic Earth
This option should enable students to:

- understand the dynamic nature of events related to crustal movements;
- increase their knowledge of processes responsible for selected hazards;
- appreciate both the beneficial and detrimental outcomes of natural hazards; and
- evaluate the effectiveness of human strategies to predict and/or reduce the impact of hazards in selected areas of the developed and developing world.

<table>
<thead>
<tr>
<th>Elements</th>
<th>Learning Outcomes</th>
<th>Spatial Context Requirement</th>
</tr>
</thead>
</table>
| 1 Plate tectonics and resulting landforms | Students should be able to demonstrate knowledge and understanding of plate tectonics including:
(i) the theory of plate tectonics, types of plate margins (conservative, constructive, destructive and collision) and evidence for plate movement including magnetic striping, jigsaw fit and geological evidence;
(ii) causes and distribution of earthquake and volcanic hazards in relation to plate boundaries and hot spots; and
(iii) resulting landforms (fold mountains, ocean ridges, deep sea trenches and island arcs). | For (i)-(iii) general reference to places for illustration purposes only |
| 2 Volcanic activity and its management | Students should be able to:
(i) understand and evaluate the hazards and benefits associated with volcanic activity: social, economic and environmental; and
(ii) demonstrate knowledge concerning efforts to predict volcanic activity and the limitations of those predictions. | For (i) general reference to places for illustration purposes only For (ii) – one small-scale case study, eg Pinatubo (1991), Merapi (1987 onwards) |
### Elements and Learning Outcomes

<table>
<thead>
<tr>
<th>3 Earthquake activity and its management</th>
<th>Students should be able to:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(i) understand the effects of earthquake activity (ground deformation, seismic shaking, landslides, liquefaction, fire, floods and tsunami);</td>
</tr>
<tr>
<td></td>
<td>(ii) demonstrate knowledge concerning efforts to predict earthquake activity and the limitations of those predictions; and</td>
</tr>
<tr>
<td></td>
<td>(iii) recognise that the impact and management of the effects of earthquake activity reflect knowledge, perception and stage of development.</td>
</tr>
</tbody>
</table>

For (iii) – two small-scale case studies: one from a MEDC, eg Kobe in Japan and one from a LEDC, eg northern Pakistan

### Section B: The Decision-Making Exercise

Section B of this unit requires students to prepare for a compulsory decision-making exercise. This takes the form of a case study. Students are presented with a variety of resources which may include maps, statistics, reports, diagrams and photographs. They must then identify and analyse appropriate material and are required to use particular skills and techniques and to evaluate the results of analysis. Students are asked to take on a particular role for answering part of the exercise and to examine conflicting values which may be apparent in the case study. They are required to consider alternative choices and to make and justify recommendations.
4 Scheme of Assessment

4.1 Assessment opportunities
Students can choose to be assessed in stages during their AS and A Level courses or to leave all assessment to the end of the courses. Section 2 of the specification shows the availability of assessment units.

Students can choose to resit AS and A2 assessment units. The best result for each assessment unit will count towards the AS and A Level qualifications.

Results for each assessment unit can continue to contribute to an AS or A Level qualification while the specification is offered.

4.2 Assessment objectives
The assessment objectives of the specification are listed below. Students must:

- demonstrate knowledge and understanding of the content, concepts and processes (AO1);
- analyse, interpret and evaluate geographical information, issues and viewpoints and apply understanding in unfamiliar contexts (AO2); and
- select and use a variety of methods, skills and techniques (including the use of new technologies) to investigate questions and issues, reach conclusions and communicate findings (AO3).

4.3 Assessment objective weightings
The assessment objective weightings for each assessment unit and the overall AS and A Level qualifications are set out in the table below:

<table>
<thead>
<tr>
<th>Assessment Objective</th>
<th>Assessment Unit Weightings</th>
<th>Overall Weightings</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AS 1</td>
<td>AS 2</td>
</tr>
<tr>
<td>AO1</td>
<td>50%</td>
<td>50%</td>
</tr>
<tr>
<td>AO2</td>
<td>20%</td>
<td>20%</td>
</tr>
<tr>
<td>AO3</td>
<td>30%</td>
<td>30%</td>
</tr>
</tbody>
</table>

4.4 Nature of assessment units
The assessment units that make up the AS and full A Level awards are described below:

Assessment Unit 1: Themes in Physical Geography
This assessment unit takes the form of a 90-minute examination. Students must bring to the examination a summary statement and a table of data covering the aims and context for the fieldwork (see Section 3.1). Students must answer six questions from three sections.

Section A comprises a multi-part compulsory question which will assess fieldwork skills. Parts of this question may require the student to analyse, interpret and evaluate the data presented and the techniques used to collect it. We expect students to demonstrate their understanding of, and ability to apply fieldwork techniques. They must also demonstrate
graphical, cartographic, statistical, analytical, interpretative and evaluative skills. A detailed list of the necessary skills and techniques is set out on page 7. The question will have an allocation of 30 marks.

Section B comprises three compulsory short structured questions. Each question has a total of 12 marks.

In Section C students choose two out of three questions that require extended writing. Each question has a total of 12 marks. In both Sections B and C, questions focus mainly on one of the three main elements in the unit content. However, parts of questions may be used to assess the relationship between the elements.

**Assessment Unit 2: Themes in Human Geography**
This assessment unit takes the form of a 90-minute examination. Students must answer six questions from three sections.

Section A comprises a multi-part compulsory question. Parts of this question may require the student to respond to quantitative or qualitative data provided from secondary sources. Students must demonstrate their understanding of graphical, cartographic, statistical, analytical, interpretative and evaluative skills. The question has an allocation of 30 marks.

Section B comprises three compulsory, short, structured questions. Each question has a total of 12 marks.

In Section C students must choose two out of three questions that require extended writing. Each question has a total of 12 marks. In both Sections B and C, questions focus mainly on one of the three main elements in the unit content. However, parts of questions may be used to assess the relationship between the elements.

**Assessment Unit 3: Human Interactions and Global Issues**
This assessment unit takes the form of a 90-minute examination consisting of two sections.

Section A has three subsections. Each subsection corresponds to one of the optional units in Unit 3 and comprises two structured questions. Students must answer two questions, one from each of their chosen subsections. Each question has a total allocation of 30 marks. These questions have at least one extended element with a minimum mark allocation of 10 marks.

Section B comprises four structured questions corresponding to Section B of the unit content. Students must answer one question corresponding to their chosen Global Issue. Each question has a total of 30 marks. Each question also has at least one extended element with a minimum mark allocation of 10 marks. This part of Unit 3 contributes to synoptic assessment.

**Assessment Unit 4: Physical Geography and Decision-Making**
This assessment unit takes the form of a 150-minute examination and consists of two sections.
Section A has three subsections. Each corresponds to one of the optional units in Unit 3 and comprises two structured questions. Students must answer two questions: one from each of their chosen subsections. Each question has a total allocation of 30 marks and has at least one extended element with a minimum mark allocation of 10 marks.

Section B requires students to undertake a decision-making exercise. This takes the form of a case study which has an allocation of 50 marks. We will present students with a variety of resources, and they must use particular skills and techniques to evaluate the results of the analysis. We may ask them to take on a particular role for answering part of the exercise. We may also ask them to examine conflicting values that may be apparent in the case study. Students must consider alternative choices and to make and justify recommendations. This part of Unit 4 contributes to synoptic assessment.

4.5 Quality of written communication
Some assessment units in AS and A Level qualifications in Geography require students to demonstrate their quality of written communication. In particular, students are required to:

- ensure that text is legible and that spelling, punctuation and grammar are accurate so that meaning is clear;
- select and use a form and style of writing appropriate to their purpose and to complex subject matter; and
- organise information clearly and coherently, using specialist vocabulary where appropriate.

Examiners assess the quality of students’ written communication in their responses to questions or tasks that require extended writing. Quality of written communication will be assessed within assessment objective AO3.

4.6 Synoptic assessment
The A2 assessment units include an element of synoptic assessment. This allows students to demonstrate expertise in the essential knowledge, understanding and skills of Geography.

In GCE Geography, synoptic assessment requires that students demonstrate that they can:

- draw on their understanding of the connections between different aspects of the subject represented in the specification; and
- demonstrate their ability to ‘think like a geographer’.

4.7 Stretch and challenge
The A2 assessment units Human Interactions and Global Issues and Physical Geography and Decision-Making will include opportunities for stretch and challenge. This will be achieved by:

- using a variety of command words, for example analyse, evaluate, discuss, compare – to elicit a full range of response types;
- the use of case studies (decision-making in A2 2);
• the use of open-ended questions (A2 1 and A2 2); and
• the use of resource materials (A2 1 and A2 2).

4.8 Reporting and grading
We report the results of individual assessment units on a uniform mark scale that reflects the assessment weighting of each unit.

AS qualifications are awarded on a five grade scale from A to E with A being the highest. A Level qualifications are awarded on a six grade scale from A* to E with A* being the highest. We determine the AS and A Level grades awarded by aggregating the uniform marks obtained on individual assessment units. To be awarded an A*, candidates will need to achieve a grade A on their full A level qualification and an A* on the aggregate of their A2 units. For students who fail to attain a grade E, we report their results as unclassified (U).

The grades we award match the performance descriptions published by the regulatory authorities (see Section 5.4).
5 Links

5.1 Support materials
We currently provide the following materials to support this specification:

- specimen papers;
- mark schemes; and
- a resource list.

You can access these materials from our website at www.ccea.org.uk or in printed format from the CCEA Distribution Section.

We will expand our range of support materials to include exemplar schemes of work. We will make these available via our website and, where appropriate, in printed form.

You can find details of our Annual Support Programme of events and materials for Geography on our website: www.ccea.org.uk.

5.2 Curriculum objectives
This specification addresses and builds upon the broad curriculum objectives for Northern Ireland, England and Wales. In particular, it allows students to:

- develop as individuals and in their roles as contributors to society, the economy and the environment;
- address moral, ethical and social issues associated with the use and management of resources; and
- develop skills and dispositions that will enhance their employability, for example communication, numeracy, the ability to think logically and rationally, decision-making, problem-solving, ICT skills and teamwork.

5.3 Key skills
This specification provides students with opportunities to develop the following skills at level 3:

- Application of Number – all units
- Communication – all units
- Improving Own Learning and Performance – all units
- Information and Communication Technology – all units
- Problem-Solving – A2
- Working with Others - AS.

You can find details of the current standards and guidance for each of these skills on the Ofqual website at www.ofqual.gov.uk.

5.4 Performance descriptions
Performance descriptions for the AS and A2 judgemental A/B and E/U boundaries can be found in the GCE AS and A Level Subject Criteria for Geography. To view, please go to www.ccea.org.uk then select Regulation > Compliance.
5.5 Examination entries
The following entry codes apply to individual assessment units and the overall AS and A Level cash-ins in Geography:

AS 1       AAG11
AS 2       AAG12
AS cash-in S3912
A2 1       AAG21
A2 2       AAG22
A Level cash-in A3912

You can view details of how to make entries on our website. Alternatively, you can contact our Entries Team using the details provided in Section 5.8.

5.6 Students with particular requirements
We have designed this specification to minimise the need to adjust the assessment of students who have particular requirements. Details of the arrangements you can make for such students are available in the Joint Council for Qualifications document Regulations and Guidance – Access Arrangements, Reasonable Adjustments and Special Consideration: General and Vocational Qualifications.

5.7 Disability Discrimination Act (DDA)
AS/A Levels often require assessment of a broad range of competences. This is because they are general qualifications and, as such, prepare candidates for a wide range of occupations and higher level courses.

The revised AS/A Level qualification and subject criteria were reviewed to identify whether any of the competences required by the subject presented a potential barrier to any disabled candidates. If this was the case, the situation was reviewed again to ensure that such competences were included only where essential to the subject. The findings of this process were discussed with disability groups and with disabled people.

Reasonable adjustments are made for disabled candidates in order to enable them to access the assessments. For this reason, very few candidates will have a complete barrier to any part of the assessment. Information on reasonable adjustments is found in the Joint Council for Qualifications document Regulations and Guidance – Access Arrangements, Reasonable Adjustments and Special Consideration: General and Vocational Qualifications.

Candidates who are still unable to access a significant part of the assessment, even after exploring all possibilities through reasonable adjustments, may still be able to receive an award. They would be given a grade on the parts of the assessment they have taken and there would be an indication on their certificate that not all of the competences have been addressed. This will be kept under review and may be amended in the future.

In A Level Geography requirements for fieldwork are sufficiently flexible for all candidates to participate.
5.8 Contact details
The following list provides contact details for relevant members of our staff:

- Specification Support Officer: Arlene Ashfield
  (telephone: (028) 9026 1200, extension 2291, email: aashfield@ccea.org.uk)

- Officer with Subject Responsibility: Margaret McMullan
  (telephone: (028) 9026 1404, email: mmcmullan@ccea.org.uk)

- Examination Entries, Results and Certification
  (telephone: (028) 9026 1262, email: entriesandresults@ccea.org.uk)

- Examiner Recruitment
  (telephone: (028) 9026 1243, email: appointments@ccea.org.uk)

- Distribution (past papers and support materials)
  (telephone: (028) 9026 1242, email: cceedistribution@ccea.org.uk)

- Support Events Administration: Events Information Service
  (telephone: (028) 9026 1401, email: events@ccea.org.uk)

- Information Section (including Freedom of Information requests)
  (telephone: (028) 9026 1200, email: info@ccea.org.uk)

- Business Assurance (appeals)
  (telephone: (028) 9026 1244, email: appealsmanager@ccea.org.uk).
Summary of Changes since First Issue

(all document changes are marked in red)

<table>
<thead>
<tr>
<th>Revision History Number</th>
<th>Date of Change</th>
<th>Page Number</th>
<th>Change Made</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version 1</td>
<td>N/A</td>
<td>N/A</td>
<td>First issue</td>
</tr>
<tr>
<td>Version 2</td>
<td>16 June 2009</td>
<td>7</td>
<td>Addition to title: The written report and table of data</td>
</tr>
<tr>
<td>Version 2</td>
<td>16 June 2009</td>
<td>7 and 8</td>
<td>New paragraph inserted above Section B</td>
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<tr>
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<td>16 June 2009</td>
<td>10</td>
<td>Addition to point 1(b) under Spatial Context Requirement: the word causes, added</td>
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<tr>
<td>Version 2</td>
<td>16 June 2009</td>
<td>19</td>
<td>Additions to point 1 under Learning Outcomes column (ii) the word evaluate added</td>
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<tr>
<td></td>
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<td></td>
<td>Under Spatial Context Requirement: Dover District Council replaces the word Bexley</td>
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<tr>
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<td>16 June 2009</td>
<td>30</td>
<td>Under 4.4: Assessment Unit 1: Themes in Physical Geography: table of data and a summary statement replaced by summary statement and a table of data Addition to end of sentence (see Section 3.1)</td>
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<td>Date</td>
<td>Page(s)</td>
<td>Notes</td>
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<tr>
<td>Version 3</td>
<td>8 October 2009</td>
<td>8</td>
<td>Corrected spelling of word Quantitative in first bullet point. The word date changed to data in third bullet point.</td>
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<tr>
<td>Version 4</td>
<td>18 April 2011</td>
<td>Contents</td>
<td>Changed 3.3 title</td>
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<tr>
<td>Version 4</td>
<td>18 April 2011</td>
<td>5, 17, 31, 32</td>
<td>Geography changed to Interactions</td>
</tr>
<tr>
<td>Version 4</td>
<td>18 April 2011</td>
<td>8</td>
<td>Paragraph moved from top of page 9 to page 8</td>
</tr>
<tr>
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<td>14</td>
<td>Space removed</td>
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<td>Version 4</td>
<td>18 April 2011</td>
<td>17</td>
<td>Words removed, ‘and’ inserted</td>
</tr>
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<td>Version 4</td>
<td>18 April 2011</td>
<td>18, 23</td>
<td>Brackets and spaces inserted</td>
</tr>
<tr>
<td>Version 4</td>
<td>18 April 2011</td>
<td>19</td>
<td>Point (iii) on Local Agenda 21 has been removed from both the Learning Outcomes and Spatial Context Requirement. This initiative was at the leading edge of planning initiatives some years ago but changes in political leadership and in government have meant that its role has diminished with the result that it has become very difficult to find up-to-date information relating to LA21 and its impact on planning for sustainability.</td>
</tr>
<tr>
<td>Version 4</td>
<td>18 April 2011</td>
<td>21</td>
<td>Semi-colons inserted</td>
</tr>
<tr>
<td>Version 5</td>
<td>23 February 2012</td>
<td>34,35,36</td>
<td>Section 5 updated</td>
</tr>
</tbody>
</table>