
GCSE GEOGRAPHY

(8035)

Specification

For teaching from September 2016 onwards
For exams in 2018 onwards

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- You will always find the most up-to-date version of this specification on our website at [aqa.org.uk/8035](https://www.aqa.org.uk/8035)
- We will write to you if there are significant changes to the specification.

1 Introduction

1.1 Why choose AQA for GCSE Geography

Our specification enables a variety of teaching and learning approaches. This exciting and relevant course studies geography in a balanced framework of physical and human themes and investigates the link between them.

Students will travel the world from their classroom, exploring case studies in the United Kingdom (UK), higher income countries (HICs), newly emerging economies (NEEs) and lower income countries (LICs). Topics of study include climate change, poverty, deprivation, global shifts in economic power and the challenge of sustainable resource use. Students are also encouraged to understand their role in society, by considering different viewpoints, values and attitudes.

We created this specification with help from teachers and subject experts and we're confident you'll enjoy teaching it as much as your students will enjoy learning.

Upon completion of this two year course, students will have the skills and experience to progress onto A-level and beyond.

You can find out about all our Geography qualifications at aqa.org.uk/geography

1.2 Support and resources to help you teach

We've worked with experienced teachers to provide you with a range of resources that will help you confidently plan, teach and prepare for exams.

Teaching resources

Visit aqa.org.uk/8035 to see all our teaching resources. They include:

- dedicated student textbooks approved by AQA
- specimen question papers and mark schemes to show you what the exam will look like
- enhanced schemes of work to provide you with a range of suggestions for lesson activities, resources and more
- fieldwork toolkit to support your delivery of this key element of the specification
- training courses to help you deliver AQA Geography qualifications
- subject expertise courses for all teachers, from newly-qualified teachers who are just getting started to experienced teachers looking for fresh inspiration.

Preparing for exams

Visit aqa.org.uk/8035 for everything you need to prepare for our exams, including:

- past papers, mark schemes and examiners' reports
- specimen papers and mark schemes for new courses
- Exampro: a searchable bank of past AQA exam questions
- exemplar student answers with examiner commentaries.

Analyse your students' results with Enhanced Results Analysis (ERA)

Find out which questions were the most challenging, how the results compare to previous years and where your students need to improve. ERA, our free online results analysis tool, will help you see where to focus your teaching. Register at aqa.org.uk/era

For information about results, including maintaining standards over time, grade boundaries and our post-results services, visit aqa.org.uk/results

Keep your skills up-to-date with professional development

Wherever you are in your career, there's always something new to learn. As well as subject-specific training, we offer a range of courses to help boost your skills.

- Improve your teaching skills in areas including differentiation, teaching literacy and meeting Ofsted requirements.
- Prepare for a new role with our leadership and management courses.

You can attend a course at venues around the country, in your school or online – whatever suits your needs and availability. Find out more at coursesandevents.aqa.org.uk

Help and support available

Visit our website for information, guidance, support and resources at aqa.org.uk/8035

If you'd like us to share news and information about this qualification, sign up for emails and updates at aqa.org.uk/keepinformedgeography

Alternatively, you can call or email our subject team direct.

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2 Specification at a glance

This qualification is linear. Linear means that students will sit all their exams at the end of the course.

2.1 Subject content

Living with the physical environment

- 3.1.1 [Section A: The challenge of natural hazards](#) (page 9)
- 3.1.2 [Section B: The living world](#) (page 12)
- 3.1.3 [Section C: Physical landscapes in the UK](#) (page 14)

Challenges in the human environment

- 3.2.1 [Section A: Urban issues and challenges](#) (page 18)
- 3.2.2 [Section B: The changing economic world](#) (page 19)
- 3.2.3 [Section C: The challenge of resource management](#) (page 22)

Geographical applications

- 3.3.1 [Section A: Issue evaluation](#) (page 26)
- 3.3.2 [Section B: Fieldwork](#) (page 27)

Geographical skills

- 3.4 [Geographical skills](#) (page 29)

2.2 Assessments

Paper 1: Living with the physical environment
<p>What's assessed</p> <p>3.1.1 The challenge of natural hazards, 3.1.2 The living world, 3.1.3 Physical landscapes in the UK, 3.4 Geographical skills</p>
<p>How it's assessed</p> <ul style="list-style-type: none"> • Written exam: 1 hour 30 minutes • 88 marks (including 3 marks for spelling, punctuation, grammar and specialist terminology (SPaG)) • 35% of GCSE
<p>Questions</p> <ul style="list-style-type: none"> • Section A: answer all questions (33 marks) • Section B: answer all questions (25 marks) • Section C: answer any two questions from questions 3, 4 and 5 (30 marks) • Question types: multiple-choice, short answer, levels of response, extended prose



Paper 2: Challenges in the human environment

What's assessed

3.2.1 Urban issues and challenges, 3.2.2 The changing economic world, 3.2.3 The challenge of resource management, 3.4 Geographical skills

How it's assessed

- Written exam: 1 hour 30 minutes
- 88 marks (including 3 marks for SPaG)
- 35% of GCSE

Questions

- Section A: answer all questions (33 marks)
- Section B: answer all questions (30 marks)
- Section C: answer question 3 and one from questions 4, 5 or 6 (25 marks)
- Question types: multiple-choice, short answer, levels of response, extended prose



Paper 3: Geographical applications

What's assessed

3.3.1 Issue evaluation, 3.3.2 Fieldwork, 3.4 Geographical skills

How it's assessed

- Written exam: 1 hour 15 minutes
- 76 marks (including 6 marks for SPaG)
- 30% of GCSE
- Pre-release resources booklet made available 12 weeks before Paper 3 exam

Questions

- Section A: answer all questions (37 marks)
- Section B: answer all questions (39 marks)
- Question types: multiple-choice, short answer, levels of response, extended prose

3 Subject content

The subject content is split into four units: 3.1 Living with the physical environment, 3.2 Challenges in the human environment, 3.3 Geographical applications and 3.4 Geographical skills.

In units 3.1 and 3.2 the content is split into sections, with each section focusing on a particular geographical theme. Unit 3.3 sets out the requirements for fieldwork and issue evaluation. Unit 3.4 sets out the geographical skills that students are required to develop and demonstrate.

In the specification content, students are required to study case studies and examples. Case studies are broader in context and require greater breadth and depth of knowledge and understanding. Examples are more focused on a specific event or situation, are smaller in scale and do not cover the same degree of content.

3.1 Living with the physical environment

This unit is concerned with the dynamic nature of physical processes and systems, and human interaction with them in a variety of places and at a range of scales.

The aims of this unit are to develop an understanding of the tectonic, geomorphological, biological and meteorological processes and features in different environments, and 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.

3.1.1 Section A: The challenge of natural hazards

In this section, students are required to study all the themes.

3.1.1.1 Natural hazards

Key idea	Specification content
Natural hazards pose major risks to people and property.	Definition of a natural hazard. Types of natural hazard. Factors affecting hazard risk.

3.1.1.2 Tectonic hazards

Key idea	Specification content
Earthquakes and volcanic eruptions are the result of physical processes.	<p>Plate tectonics theory.</p> <p>Global distribution of earthquakes and volcanic eruptions and their relationship to plate margins.</p> <p>Physical processes taking place at different types of plate margin (constructive, destructive and conservative) that lead to earthquakes and volcanic activity.</p>
The effects of, and responses to, a tectonic hazard vary between areas of contrasting levels of wealth.	<p>Primary and secondary effects of a tectonic hazard.</p> <p>Immediate and long-term responses to a tectonic hazard.</p> <p>Use named examples to show how the effects and responses to a tectonic hazard vary between two areas of contrasting levels of wealth.</p>
Management can reduce the effects of a tectonic hazard.	<p>Reasons why people continue to live in areas at risk from a tectonic hazard.</p> <p>How monitoring, prediction, protection and planning can reduce the risks from a tectonic hazard.</p>

3.1.1.3 Weather hazards

Key idea	Specification content
Global atmospheric circulation helps to determine patterns of weather and climate.	General atmospheric circulation model: pressure belts and surface winds.
Tropical storms (hurricanes, cyclones, typhoons) develop as a result of particular physical conditions.	<p>Global distribution of tropical storms (hurricanes, cyclones, typhoons).</p> <p>An understanding of the relationship between tropical storms and general atmospheric circulation.</p> <p>Causes of tropical storms and the sequence of their formation and development.</p> <p>The structure and features of a tropical storm.</p> <p>How climate change might affect the distribution, frequency and intensity of tropical storms.</p>

Key idea	Specification content
Tropical storms have significant effects on people and the environment.	<p>Primary and secondary effects of tropical storms.</p> <p>Immediate and long-term responses to tropical storms.</p> <p>Use a named example of a tropical storm to show its effects and responses.</p> <p>How monitoring, prediction, protection and planning can reduce the effects of tropical storms.</p>
The UK is affected by a number of weather hazards.	An overview of types of weather hazard experienced in the UK.
Extreme weather events in the UK have impacts on human activity.	<p>An example of a recent extreme weather event in the UK to illustrate:</p> <ul style="list-style-type: none"> • causes • social, economic and environmental impacts • how management strategies can reduce risk. <p>Evidence that weather is becoming more extreme in the UK.</p>

3.1.1.4 Climate change

Key idea	Specification content
Climate change is the result of natural and human factors, and has a range of effects.	<p>Evidence for climate change from the beginning of the Quaternary period to the present day.</p> <p>Possible causes of climate change:</p> <ul style="list-style-type: none"> • natural factors – orbital changes, volcanic activity and solar output • human factors – use of fossil fuels, agriculture and deforestation. <p>Overview of the effects of climate change on people and the environment.</p>
Managing climate change involves both mitigation (reducing causes) and adaptation (responding to change).	<p>Managing climate change:</p> <ul style="list-style-type: none"> • mitigation – alternative energy production, carbon capture, planting trees, international agreements • adaptation – change in agricultural systems, managing water supply, reducing risk from rising sea levels.

3.1.2 Section B: The living world

In this section, students are required to study [Ecosystems](#) (page 12), [Tropical rainforests](#) (page 12) and **one** from [Hot deserts](#) (page 13) or [Cold environments](#) (page 14).

3.1.2.1 Ecosystems

Key idea	Specification content
Ecosystems exist at a range of scales and involve the interaction between biotic and abiotic components.	<p>An example of a small scale UK ecosystem to illustrate the concept of interrelationships within a natural system, an understanding of producers, consumers, decomposers, food chain, food web and nutrient cycling.</p> <p>The balance between components. The impact on the ecosystem of changing one component.</p> <p>An overview of the distribution and characteristics of large scale natural global ecosystems.</p>

3.1.2.2 Tropical rainforests

Key idea	Specification content
Tropical rainforest ecosystems have a range of distinctive characteristics.	<p>The physical characteristics of a tropical rainforest.</p> <p>The interdependence of climate, water, soils, plants, animals and people.</p> <p>How plants and animals adapt to the physical conditions.</p> <p>Issues related to biodiversity.</p>
Deforestation has economic and environmental impacts.	<p>Changing rates of deforestation.</p> <p>A case study of a tropical rainforest to illustrate:</p> <ul style="list-style-type: none">causes of deforestation – subsistence and commercial farming, logging, road building, mineral extraction, energy development, settlement, population growthimpacts of deforestation – economic development, soil erosion, contribution to climate change.

Key idea	Specification content
Tropical rainforests need to be managed to be sustainable.	<p>Value of tropical rainforests to people and the environment.</p> <p>Strategies used to manage the rainforest sustainably – selective logging and replanting, conservation and education, ecotourism and international agreements about the use of tropical hardwoods, debt reduction.</p>

3.1.2.3 Hot deserts

Key idea	Specification content
Hot desert ecosystems have a range of distinctive characteristics.	<p>The physical characteristics of a hot desert.</p> <p>The interdependence of climate, water, soils, plants, animals and people.</p> <p>How plants and animals adapt to the physical conditions.</p> <p>Issues related to biodiversity.</p>
Development of hot desert environments creates opportunities and challenges.	<p>A case study of a hot desert to illustrate:</p> <ul style="list-style-type: none"> • development opportunities in hot desert environments: mineral extraction, energy, farming, tourism • challenges of developing hot desert environments: extreme temperatures, water supply, inaccessibility.
Areas on the fringe of hot deserts are at risk of desertification.	<p>Causes of desertification – climate change, population growth, removal of fuel wood, overgrazing, over-cultivation and soil erosion.</p> <p>Strategies used to reduce the risk of desertification – water and soil management, tree planting and use of appropriate technology.</p>

3.1.2.4 Cold environments

Key idea	Specification content
Cold environments (polar and tundra) have a range of distinctive characteristics.	<p>The physical characteristics of a cold environment.</p> <p>The interdependence of climate, permafrost, soils, plants, animals and people.</p> <p>How plants and animals adapt to the physical conditions.</p> <p>Issues related to biodiversity.</p>
Development of cold environments creates opportunities and challenges.	<p>A case study of a cold environment to illustrate:</p> <ul style="list-style-type: none"> • development opportunities in cold environments: mineral extraction, energy, fishing and tourism • challenges of developing cold environments: extreme temperature, inaccessibility, provision of buildings and infrastructure.
Cold environments are at risk from economic development.	<p>The value of cold environments as wilderness areas and why these fragile environments should be protected.</p> <p>Strategies used to balance the needs of economic development and conservation in cold environments – use of technology, role of governments, international agreements and conservation groups.</p>

3.1.3 Section C: Physical landscapes in the UK

In this section, students are required to study [UK physical landscapes](#) (page 14) and **two** from [Coastal landscapes in the UK](#) (page 15), [River landscapes in the UK](#) (page 16) and [Glacial landscapes in the UK](#) (page 17).

3.1.3.1 UK physical landscapes

Key idea	Specification content
The UK has a range of diverse landscapes.	An overview of the location of major upland/lowland areas and river systems.

3.1.3.2 Coastal landscapes in the UK

Key idea	Specification content
<p>The coast is shaped by a number of physical processes.</p>	<p>Wave types and characteristics.</p> <p>Coastal processes:</p> <ul style="list-style-type: none"> • weathering processes – mechanical, chemical • mass movement – sliding, slumping and rock falls • erosion – hydraulic power, abrasion and attrition • transportation – longshore drift • deposition – why sediment is deposited in coastal areas.
<p>Distinctive coastal landforms are the result of rock type, structure and physical processes.</p>	<p>How geological structure and rock type influence coastal forms.</p> <p>Characteristics and formation of landforms resulting from erosion – headlands and bays, cliffs and wave cut platforms, caves, arches and stacks.</p> <p>Characteristics and formation of landforms resulting from deposition – beaches, sand dunes, spits and bars.</p> <p>An example of a section of coastline in the UK to identify its major landforms of erosion and deposition.</p>
<p>Different management strategies can be used to protect coastlines from the effects of physical processes.</p>	<p>The costs and benefits of the following management strategies:</p> <ul style="list-style-type: none"> • hard engineering – sea walls, rock armour, gabions and groynes • soft engineering – beach nourishment and reprofiling, dune regeneration • managed retreat – coastal realignment. <p>An example of a coastal management scheme in the UK to show:</p> <ul style="list-style-type: none"> • the reasons for management • the management strategy • the resulting effects and conflicts.

3.1.3.3 River landscapes in the UK

Key idea	Specification content
<p>The shape of river valleys changes as rivers flow downstream.</p>	<p>The long profile and changing cross profile of a river and its valley.</p> <p>Fluvial processes:</p> <ul style="list-style-type: none"> • erosion – hydraulic action, abrasion, attrition, solution, vertical and lateral erosion • transportation – traction, saltation, suspension and solution • deposition – why rivers deposit sediment.
<p>Distinctive fluvial landforms result from different physical processes.</p>	<p>Characteristics and formation of landforms resulting from erosion – interlocking spurs, waterfalls and gorges.</p> <p>Characteristics and formation of landforms resulting from erosion and deposition – meanders and ox-bow lakes.</p> <p>Characteristics and formation of landforms resulting from deposition – levées, flood plains and estuaries.</p> <p>An example of a river valley in the UK to identify its major landforms of erosion and deposition.</p>
<p>Different management strategies can be used to protect river landscapes from the effects of flooding.</p>	<p>How physical and human factors affect the flood risk – precipitation, geology, relief and land use.</p> <p>The use of hydrographs to show the relationship between precipitation and discharge.</p> <p>The costs and benefits of the following management strategies:</p> <ul style="list-style-type: none"> • hard engineering – dams and reservoirs, straightening, embankments, flood relief channels • soft engineering – flood warnings and preparation, flood plain zoning, planting trees and river restoration. <p>An example of a flood management scheme in the UK to show:</p> <ul style="list-style-type: none"> • why the scheme was required • the management strategy • the social, economic and environmental issues.

3.1.3.4 Glacial landscapes in the UK

Key idea	Specification content
Ice was a powerful force in shaping the physical landscape of the UK.	<p>Maximum extent of ice cover across the UK during the last ice age.</p> <p>Glacial processes:</p> <ul style="list-style-type: none"> • freeze-thaw weathering • erosion – abrasion and plucking • movement and transportation – rotational slip and bulldozing • deposition – why glaciers deposit sediment (till and outwash).
Distinctive glacial landforms result from different physical processes.	<p>Characteristics and formation of landforms resulting from erosion – corries, arêtes, pyramidal peaks, truncated spurs, glacial troughs, ribbon lakes and hanging valleys.</p> <p>Characteristics and formation of landforms resulting from transportation and deposition – erratics, drumlins, types of moraine.</p> <p>An example of an upland area in the UK affected by glaciation to identify its major landforms of erosion and deposition.</p>
Glaciated upland areas provide opportunities for different economic activities, and management strategies can be used to reduce land use conflicts.	<p>An overview of economic activities in glaciated upland areas – tourism, farming, forestry and quarrying.</p> <p>Conflicts between different land uses, and between development and conservation.</p> <p>An example of a glaciated upland area in the UK used for tourism to show:</p> <ul style="list-style-type: none"> • the attractions for tourists • social, economic and environmental impacts of tourism • strategies used to manage the impact of tourism.

3.2 Challenges in the human environment

This unit is concerned with human processes, systems and outcomes and how these change both spatially and temporally. They are studied in a variety of places and at a range of scales and must include places in various states of development, such as higher income countries (HICs), lower income countries (LICs) and newly emerging economies (NEEs).

The aims of this unit are to develop an understanding of the factors that produce a diverse variety of human environments; the dynamic nature of these environments that change over time and

place; the need for sustainable management; and the areas of current and future challenge and opportunity for these environments.

3.2.1 Section A: Urban issues and challenges

In this section, students are required to study all the themes.

Key idea	Specification content
<p>A growing percentage of the world’s population lives in urban areas.</p>	<p>The global pattern of urban change.</p> <p>Urban trends in different parts of the world including HICs and LICs.</p> <p>Factors affecting the rate of urbanisation – migration (push–pull theory), natural increase.</p> <p>The emergence of megacities.</p>
<p>Urban growth creates opportunities and challenges for cities in LICs and NEEs.</p>	<p>A case study of a major city in an LIC or NEE to illustrate:</p> <ul style="list-style-type: none"> • the location and importance of the city, regionally, nationally and internationally • causes of growth: natural increase and migration • how urban growth has created opportunities: <ul style="list-style-type: none"> • social: access to services – health and education; access to resources – water supply, energy • economic: how urban industrial areas can be a stimulus for economic development • how urban growth has created challenges: <ul style="list-style-type: none"> • managing urban growth – slums, squatter settlements • providing clean water, sanitation systems and energy • providing access to services – health and education • reducing unemployment and crime • managing environmental issues – waste disposal, air and water pollution, traffic congestion. <p>An example of how urban planning is improving the quality of life for the urban poor.</p>

Key idea	Specification content
<p>Urban change in cities in the UK leads to a variety of social, economic and environmental opportunities and challenges.</p>	<p>Overview of the distribution of population and the major cities in the UK.</p> <p>A case study of a major city in the UK to illustrate:</p> <ul style="list-style-type: none"> • the location and importance of the city in the UK and the wider world • impacts of national and international migration on the growth and character of the city • how urban change has created opportunities: <ul style="list-style-type: none"> • social and economic: cultural mix, recreation and entertainment, employment, integrated transport systems • environmental: urban greening • how urban change has created challenges: <ul style="list-style-type: none"> • social and economic: urban deprivation, inequalities in housing, education, health and employment • environmental: dereliction, building on brownfield and greenfield sites, waste disposal • the impact of urban sprawl on the rural–urban fringe, and the growth of commuter settlements. <p>An example of an urban regeneration project to show:</p> <ul style="list-style-type: none"> • reasons why the area needed regeneration • the main features of the project.
<p>Urban sustainability requires management of resources and transport.</p>	<p>Features of sustainable urban living:</p> <ul style="list-style-type: none"> • water and energy conservation • waste recycling • creating green space. <p>How urban transport strategies are used to reduce traffic congestion.</p>

3.2.2 Section B: The changing economic world

In this section, students are required to study all the themes.

Key idea	Specification content
<p>There are global variations in economic development and quality of life.</p>	<p>Different ways of classifying parts of the world according to their level of economic development and quality of life.</p> <p>Different economic and social measures of development: gross national income (GNI) per head, birth and death rates, infant mortality, life expectancy, people per doctor, literacy rates, access to safe water, Human Development Index (HDI).</p> <p>Limitations of economic and social measures.</p> <p>Link between stages of the Demographic Transition Model and the level of development.</p> <p>Causes of uneven development: physical, economic and historical.</p> <p>Consequences of uneven development: disparities in wealth and health, international migration.</p>
<p>Various strategies exist for reducing the global development gap.</p>	<p>An overview of the strategies used to reduce the development gap: investment, industrial development and tourism, aid, using intermediate technology, fairtrade, debt relief, microfinance loans.</p> <p>An example of how the growth of tourism in an LIC or NEE helps to reduce the development gap.</p>

Key idea	Specification content
<p>Some LICs and NEEs are experiencing rapid economic development which leads to significant social, environmental and cultural change.</p>	<p>A case study of one LIC or NEE to illustrate:</p> <ul style="list-style-type: none">• the location and importance of the country, regionally and globally• the wider political, social, cultural and environmental context within which the country is placed• the changing industrial structure. The balance between different sectors of the economy. How manufacturing industry can stimulate economic development• the role of transnational corporations (TNCs) in relation to industrial development. Advantages and disadvantages of TNC(s) to the host country• the changing political and trading relationships with the wider world• international aid: types of aid, impacts of aid on the receiving country• the environmental impacts of economic development• the effects of economic development on quality of life for the population.

Key idea	Specification content
<p>Major changes in the economy of the UK have affected, and will continue to affect, employment patterns and regional growth.</p>	<p>Economic futures in the UK:</p> <ul style="list-style-type: none"> • causes of economic change: de-industrialisation and decline of traditional industrial base, globalisation and government policies • moving towards a post-industrial economy: development of information technology, service industries, finance, research, science and business parks • impacts of industry on the physical environment. An example of how modern industrial development can be more environmentally sustainable • social and economic changes in the rural landscape in one area of population growth and one area of population decline • improvements and new developments in road and rail infrastructure, port and airport capacity • the north–south divide. Strategies used in an attempt to resolve regional differences • the place of the UK in the wider world. Links through trade, culture, transport, and electronic communication. Economic and political links: the European Union (EU) and Commonwealth.

3.2.3 Section C: The challenge of resource management

In this section, students are required to study [Resource management](#) (page 22) and **one** from [Food](#) (page 23) or [Water](#) (page 24) or [Energy](#) (page 25).

3.2.3.1 Resource management

Key idea	Specification content
<p>Food, water and energy are fundamental to human development.</p>	<p>The significance of food, water and energy to economic and social well-being.</p> <p>An overview of global inequalities in the supply and consumption of resources.</p>

Key idea	Specification content
<p>The changing demand and provision of resources in the UK create opportunities and challenges.</p>	<p>An overview of resources in relation to the UK.</p> <p>Food:</p> <ul style="list-style-type: none"> • the growing demand for high-value food exports from low income countries and all-year demand for seasonal food and organic produce • larger carbon footprints due to the increasing number of ‘food miles’ travelled, and moves towards local sourcing of food • the trend towards agribusiness. <p>Water:</p> <ul style="list-style-type: none"> • the changing demand for water • water quality and pollution management • matching supply and demand – areas of deficit and surplus • the need for transfer to maintain supplies. <p>Energy:</p> <ul style="list-style-type: none"> • the changing energy mix – reliance on fossil fuels, growing significance of renewables • reduced domestic supplies of coal, gas and oil • economic and environmental issues associated with exploitation of energy sources.

3.2.3.2 Food

Key idea	Specification content
<p>Demand for food resources is rising globally but supply can be insecure, which may lead to conflict.</p>	<p>Areas of surplus (security) and deficit (insecurity):</p> <ul style="list-style-type: none"> • global patterns of calorie intake and food supply • reasons for increasing food consumption: economic development, rising population • factors affecting food supply: climate, technology, pests and disease, water stress, conflict, poverty. <p>Impacts of food insecurity – famine, undernutrition, soil erosion, rising prices, social unrest.</p>

Key idea	Specification content
<p>Different strategies can be used to increase food supply.</p>	<p>Overview of strategies to increase food supply:</p> <ul style="list-style-type: none"> • irrigation, aeroponics and hydroponics, the new green revolution and use of biotechnology, appropriate technology • an example of a large scale agricultural development to show how it has both advantages and disadvantages. <p>Moving towards a sustainable resource future:</p> <ul style="list-style-type: none"> • the potential for sustainable food supplies: organic farming, permaculture, urban farming initiatives, fish and meat from sustainable sources, seasonal food consumption, reduced waste and losses • an example of a local scheme in an LIC or NEE to increase sustainable supplies of food.

3.2.3.3 Water

Key idea	Specification content
<p>Demand for water resources is rising globally but supply can be insecure, which may lead to conflict.</p>	<p>Areas of surplus (security) and deficit (insecurity):</p> <ul style="list-style-type: none"> • global patterns of water surplus and deficit • reasons for increasing water consumption: economic development, rising population • factors affecting water availability: climate, geology, pollution of supply, over-abstraction, limited infrastructure, poverty. <p>Impacts of water insecurity – waterborne disease and water pollution, food production, industrial output, potential for conflict where demand exceeds supply.</p>

Key idea	Specification content
<p>Different strategies can be used to increase water supply.</p>	<p>Overview of strategies to increase water supply:</p> <ul style="list-style-type: none"> • diverting supplies and increasing storage, dams and reservoirs, water transfers and desalination • an example of a large scale water transfer scheme to show how its development has both advantages and disadvantages. <p>Moving towards a sustainable resource future:</p> <ul style="list-style-type: none"> • water conservation, groundwater management, recycling, 'grey' water • an example of a local scheme in an LIC or NEE to increase sustainable supplies of water.

3.2.3.4 Energy

Key idea	Specification content
<p>Demand for energy resources is rising globally but supply can be insecure, which may lead to conflict.</p>	<p>Areas of surplus (security) and deficit (insecurity):</p> <ul style="list-style-type: none"> • global distribution of energy consumption and supply • reasons for increasing energy consumption: economic development, rising population, technology • factors affecting energy supply: physical factors, cost of exploitation and production, technology and political factors. <p>Impacts of energy insecurity – exploration of difficult and environmentally sensitive areas, economic and environmental costs, food production, industrial output, potential for conflict where demand exceeds supply.</p>

Key idea	Specification content
Different strategies can be used to increase energy supply.	<p>Overview of strategies to increase energy supply:</p> <ul style="list-style-type: none"> renewable (biomass, wind, hydro, tidal, geothermal, wave and solar) and non-renewable (fossil fuels and nuclear power) sources of energy an example to show how the extraction of a fossil fuel has both advantages and disadvantages. <p>Moving towards a sustainable resource future:</p> <ul style="list-style-type: none"> individual energy use and carbon footprints. Energy conservation: designing homes, workplaces and transport for sustainability, demand reduction, use of technology to increase efficiency in the use of fossil fuels an example of a local renewable energy scheme in an LIC or NEE to provide sustainable supplies of energy.

3.3 Geographical applications

The Geographical applications unit is designed to be synoptic in that students will be required to draw together knowledge, understanding and skills from the full course of study. It is an opportunity for students to show their breadth of understanding and an evaluative appreciation of the interrelationships between different aspects of geographical study.

3.3.1 Section A: Issue evaluation

This section contributes a critical thinking and problem-solving element to the assessment structure. The assessment will provide students with the opportunity to demonstrate geographical skills and applied knowledge and understanding by looking at a particular issue(s) derived from the specification using secondary sources.

The issue(s) will arise from any aspect of the compulsory sections of the subject content but may extend beyond it through the use of resources in relation to specific unseen contexts. Students develop knowledge and understanding of physical geography themes in unit 3.1 and human geography themes in unit 3.2. This section is synoptic and the assessment will require students to use their learning of more than one of the themes in units 3.1 and 3.2 so that they can analyse a geographical issue at a range of scales, consider and select a possible option in relation to the issue(s) and justify their decision.

A resource booklet will be available twelve weeks before the date of the exam so that students have the opportunity to work through the resources, enabling them to become familiar with the material. Students will not be allowed to take the original resource booklet into the examination room but will be issued with a clean copy in the exam. Sources could include maps at different scales, diagrams, graphs, statistics, photographs, satellite images, sketches, extracts from published materials, and quotes from different interest groups.

Assessment will consist of a series of questions related to a contemporary geographical issue(s), leading to a more extended piece of writing which will involve an evaluative judgement. Students will apply knowledge and understanding to interpret, analyse and evaluate the information and issue(s) in the pre-release resources booklet and the question paper. They will also use geographical skills to set the issue(s) in context and to examine conflicting viewpoints about the issue(s).

Students will develop a critical perspective on the issue(s) studied, consider the points of view of the stakeholders involved, make an appraisal of the advantages and disadvantages, and evaluate the alternatives.

The exam will also require students to consider physical and human interrelationships and to make reasoned justifications for proposed solutions in terms of their likely impact on both people and the physical environment.

3.3.2 Section B: Fieldwork

Students need to undertake **two geographical enquiries**, each of which must include the use of primary data, collected as part of a fieldwork exercise. There should be a clear link between the subject content and geographical enquiries, and the enquiries can be based on any part of the content addressed in units 3.1 and 3.2.

Fieldwork **must** take place outside the classroom and school grounds on at least **two** occasions.

The two enquiries must be carried out in contrasting environments and show an understanding of both physical and human geography. In at least one of the enquiries students are expected to show an understanding about the interaction between physical and human geography.

Students' understanding of the enquiry process will be assessed in the following two ways:

1. questions based on the use of fieldwork materials from an unfamiliar context
2. questions based on students' individual enquiry work. For these questions students will have to identify the titles of their individual enquiries.

Students will be expected to:

1. apply knowledge and understanding to interpret, analyse and evaluate information and issues related to geographical enquiry
2. select, adapt and use a variety of skills and techniques to investigate questions and issues and communicate findings in relation to geographical enquiry.

Geographical enquiry strand	Application of knowledge and understanding, and skills
1. Suitable question for geographical enquiry	<p>The factors that need to be considered when selecting suitable questions/hypotheses for geographical enquiry.</p> <p>The geographical theory/concept underpinning the enquiry.</p> <p>Appropriate sources of primary and secondary evidence, including locations for fieldwork.</p> <p>The potential risks of both human and physical fieldwork and how these risks might be reduced.</p>

Geographical enquiry strand	Application of knowledge and understanding, and skills
2. Selecting, measuring and recording data appropriate to the chosen enquiry	Difference between primary and secondary data. Identification and selection of appropriate physical and human data. Measuring and recording data using different sampling methods. Description and justification of data collection methods.
3. Selecting appropriate ways of processing and presenting fieldwork data	Appreciation that a range of visual, graphical and cartographic methods is available. Selection and accurate use of appropriate presentation methods. Description, explanation and adaptation of presentation methods
4. Describing, analysing and explaining fieldwork data	Description, analysis and explanation of the results of fieldwork data. Establish links between data sets. Use appropriate statistical techniques. Identification of anomalies in fieldwork data.
5. Reaching conclusions	Draw evidenced conclusions in relation to original aims of the enquiry.
6. Evaluation of geographical enquiry	Identification of problems of data collection methods. Identification of limitations of data collected. Suggestions for other data that might be useful. Extent to which conclusions were reliable.

Fieldwork is an essential aspect of geography. It ensures that students are given the opportunity to consolidate and extend their geographical understanding by relating learning to real experiences of the world.

Schools and colleges must submit a written statement as evidence that the fieldwork requirement has been met.

The statement must record the date, location, numbers of students participating, the main issues/questions investigated and the part of the specification content to which the fieldwork is linked. The statement must be signed by the Head of Centre.

Any failure to provide this statement in a timely manner will be treated as malpractice or maladministration (under Ofqual's *General Condition A8 (Malpractice and maladministration)*).

3.4 Geographical skills

Students are required to develop and demonstrate a range of geographical skills, including cartographic, graphical, numerical and statistical skills, throughout their study of the specification. Skills will be assessed in all three written exams. Ordnance Survey (OS) maps or other map extracts may be used in any of the three exams.

3.4.1 Cartographic skills

Cartographic skills relating to a variety of maps at different scales.

Atlas maps:

- use and understand coordinates – latitude and longitude
- recognise and describe distributions and patterns of both human and physical features
- maps based on global and other scales may be used and students may be asked to identify and describe significant features of the physical and human landscape on them, eg population distribution, population movements, transport networks, settlement layout, relief and drainage
- analyse the inter-relationship between physical and human factors on maps and establish associations between observed patterns on thematic maps.

Ordnance Survey maps:

- use and interpret OS maps at a range of scales, including 1:50 000 and 1:25 000 and other maps appropriate to the topic
- use and understand coordinates – four and six-figure grid references
- use and understand scale, distance and direction – measure straight and curved line distances using a variety of scales
- use and understand gradient, contour and spot height
- numerical and statistical information
- identify basic landscape features and describe their characteristics from map evidence
- identify major relief features on maps and relate cross-sectional drawings to relief features
- draw inferences about the physical and human landscape by interpretation of map evidence, including patterns of relief, drainage, settlement, communication and land-use
- interpret cross sections and transects of physical and human landscapes
- describe the physical features as they are shown on large scale maps of two of the following landscapes – coastlines, fluvial and glacial landscapes
- infer human activity from map evidence, including tourism.

Maps in association with photographs:

- be able to compare maps
- sketch maps: draw, label, understand and interpret
- photographs: use and interpret ground, aerial and satellite photographs
- describe human and physical landscapes (landforms, natural vegetation, land-use and settlement) and geographical phenomena from photographs
- draw sketches from photographs
- label and annotate diagrams, maps, graphs, sketches and photographs.

3.4.2 Graphical skills

Graphical skills to:

- select and construct appropriate graphs and charts to present data, using appropriate scales – line charts, bar charts, pie charts, pictograms, histograms with equal class intervals, divided bar, scattergraphs, and population pyramids
- suggest an appropriate form of graphical representation for the data provided
- complete a variety of graphs and maps – choropleth, isoline, dot maps, dot lines, proportional symbols and flow lines
- use and understand gradient, contour and value on isoline maps
- plot information on graphs when axes and scales are provided
- interpret and extract information from different types of maps, graphs and charts, including population pyramids, choropleth maps, flow-line maps, dispersion graphs.

3.4.3 Numerical skills

Numerical skills to:

- demonstrate an understanding of number, area and scales, and the quantitative relationships between units
- design fieldwork data collection sheets and collect data with an understanding of accuracy, sample size and procedures, control groups and reliability
- understand and correctly use proportion and ratio, magnitude and frequency
- draw informed conclusions from numerical data.

3.4.4 Statistical skills

Statistical skills to:

- use appropriate measures of central tendency, spread and cumulative frequency (median, mean, range, quartiles and inter-quartile range, mode and modal class)
- calculate percentage increase or decrease and understand the use of percentiles
- describe relationships in bivariate data: sketch trend lines through scatter plots, draw estimated lines of best fit, make predictions, interpolate and extrapolate trends
- be able to identify weaknesses in selective statistical presentation of data.

3.4.5 Use of qualitative and quantitative data

Use of qualitative and quantitative data from both primary and secondary sources to obtain, illustrate, communicate, interpret, analyse and evaluate geographical information.

Examples of types of data:

- maps
- fieldwork data
- geo-spatial data presented in a geographical information system (GIS) framework
- satellite imagery
- written and digital sources
- visual and graphical sources
- numerical and statistical information.

3.4.6 Formulate enquiry and argument

Students should demonstrate the ability to:

- identify questions and sequences of enquiry
- write descriptively, analytically and critically
- communicate their ideas effectively
- develop an extended written argument
- draw well-evidenced and informed conclusions about geographical questions and issues.

3.4.7 Literacy

Most communication is through the written word, raising the importance of good literacy skills. Students should be able to communicate information in ways suitable for a range of target audiences.

4 Scheme of assessment

Find past papers and mark schemes, and specimen papers for new courses, on our website at aqa.org.uk/pastpapers

This specification is designed to be taken over two years.

This is a linear qualification. In order to achieve the award, students must complete all assessments at the end of the course and in the same series.

GCSE exams and certification for this specification are available for the first time in May/June 2018 and then every May/June for the life of the specification.

All materials are available in English only.

Our GCSE exams in Geography include questions that allow students to demonstrate their ability to:

- draw together their knowledge, understanding and skills from across the full course of study
- provide extended responses.

4.1 Aims and learning outcomes

Courses based on this specification should encourage students to:

- develop and extend their knowledge of locations, places, environments and processes, and of different scales including global; and of social, political and cultural contexts (know geographical material)
- gain understanding of the interactions between people and environments, change in places and processes over space and time, and the inter-relationship between geographical phenomena at different scales and in different contexts (think like a geographer)
- develop and extend their competence in a range of skills including those used in fieldwork, in using maps and GIS and in researching secondary evidence, including digital sources; and develop their competence in applying sound enquiry and investigative approaches to questions and hypotheses (study like a geographer)
- apply geographical knowledge, understanding, skills and approaches appropriately and creatively to real world contexts, including fieldwork, and to contemporary situations and issues; and develop well-evidenced arguments drawing on their geographical knowledge and understanding (applying geography).

4.2 Assessment objectives

Assessment objectives (AOs) are set by Ofqual and are the same across all GCSE Geography specifications and all exam boards.

The exams will measure how students have achieved the following assessment objectives.

- AO1: Demonstrate knowledge of locations, places, processes, environments and different scales (15%).
- AO2: Demonstrate geographical understanding of: concepts and how they are used in relation to places, environments and processes; the interrelationships between places, environments and processes (25%).
- AO3: Apply knowledge and understanding to interpret, analyse and evaluate geographical information and issues to make judgements (35%, including 10% applied to fieldwork context(s)).
- AO4: Select, adapt and use a variety of skills and techniques to investigate questions and issues and communicate findings (25%, including 5% used to respond to fieldwork data and context(s)).

Assessment objective weightings for GCSE Geography

Assessment objectives (AOs)	Component weightings (approx %)			Overall weighting (approx %)
	Paper 1	Paper 2	Paper 3	
AO1	7.5	7.5	0	15
AO2	11	11	3	25
AO3	8.5	8.5	18	35
AO4	8	8	9	25
Overall weighting of components	35	35	30	100

4.3 Assessment weightings

The marks awarded on the papers will be scaled to meet the weighting of the components. Students' final marks will be calculated by adding together the scaled marks for each component. Grade boundaries will be set using this total scaled mark. The scaling and total scaled marks are shown in the table below.

Component	Maximum raw mark	Scaling factor	Maximum scaled mark
Paper 1: Living with the physical environment	88	x1	88
Paper 2: Challenges in the human environment	88	x1	88
Paper 3: Geographical applications	76	x1	76
Total scaled mark:			252

4.4 Spelling, Punctuation and Grammar (SPaG)

Spelling, punctuation and grammar (SPaG) will be assessed against the following criteria:

Level	Performance descriptor	Marks awarded
High performance	<ul style="list-style-type: none"> • Learners spell and punctuate with consistent accuracy. • Learners use rules of grammar with effective control of meaning overall. • Learners use a wide range of specialist terms as appropriate. 	3 marks
Intermediate performance	<ul style="list-style-type: none"> • Learners spell and punctuate with considerable accuracy. • Learners use rules of grammar with general control of meaning overall. • Learners use a good range of specialist terms as appropriate. 	2 marks
Threshold performance	<ul style="list-style-type: none"> • Learners spell and punctuate with reasonable accuracy. • Learners use rules of grammar with some control of meaning and any errors do not significantly hinder meaning overall. • Learners use a limited range of specialist terms as appropriate. 	1 mark
No marks awarded	<ul style="list-style-type: none"> • The learner writes nothing. • The learner's response does not relate to the question. • The learner's achievement in SPaG does not reach the threshold performance level, for example errors in spelling, punctuation and grammar severely hinder meaning. 	0 marks

5 General administration

You can find information about all aspects of administration, as well as all the forms you need, at aqa.org.uk/examsadmin

5.1 Entries and codes

You only need to make one entry for each qualification – this will cover all the question papers and certification.

Every specification is given a national discount (classification) code by the Department for Education (DfE), which indicates its subject area.

If a student takes two specifications with the same discount code:

- further and higher education providers are likely to take the view that they have only achieved one of the two qualifications
- only one of them will be counted for the purpose of the *School and College Performance tables* – the DfE's rules on 'early entry' will determine which one.

Please check this before your students start their course.

Qualification title	AQA entry code	DfE discount code
AQA GCSE in Geography	8035	TBC

This specification complies with:

- Ofqual *General conditions of recognition* that apply to all regulated qualifications
- Ofqual GCSE qualification level conditions that apply to all GCSEs
- Ofqual GCSE subject level conditions that apply to all GCSEs in this subject
- all other relevant regulatory documents.

The Ofqual qualification accreditation number (QAN) is 601/8410/3.

5.2 Overlaps with other qualifications

There are no overlaps with any other AQA qualifications at this level.

5.3 Awarding grades and reporting results

The qualification will be graded on a nine-point scale: 1 to 9 – where 9 is the best grade.

Students who fail to reach the minimum standard for grade 1 will be recorded as U (unclassified) and will not receive a qualification certificate.

5.4 Re-sits and shelf life

Students can re-sit the qualification as many times as they wish, within the shelf life of the qualification.

5.5 Previous learning and prerequisites

There are no previous learning requirements. Any requirements for entry to a course based on this specification are at the discretion of schools and colleges.

5.6 Access to assessment: diversity and inclusion

General qualifications are designed to prepare students for a wide range of occupations and further study. Therefore our qualifications must assess a wide range of competences.

The subject criteria have been assessed to see if any of the skills or knowledge required present any possible difficulty to any students, whatever their ethnic background, religion, sex, age, disability or sexuality. If any difficulties were encountered, the criteria were reviewed again to make sure that tests of specific competences were only included if they were important to the subject.

As members of the Joint Council for Qualifications (JCQ) we participate in the production of the JCQ document *Access Arrangements and Reasonable Adjustments: General and Vocational qualifications*. We follow these guidelines when assessing the needs of individual students who may require an access arrangement or reasonable adjustment. This document is published on the JCQ website at jcq.org.uk

5.6.1 Students with disabilities and special needs

We can make arrangements for disabled students and students with special needs to help them access the assessments, as long as the competences being tested are not changed. Access arrangements must be agreed **before** the assessment. For example, a Braille paper would be a reasonable adjustment for a Braille reader but not for a student who does not read Braille.

We are required by the Equality Act 2010 to make reasonable adjustments to remove or lessen any disadvantage that affects a disabled student.

If you have students who need access arrangements or reasonable adjustments, you can apply using the Access arrangements online service at aqa.org.uk/eaqa

5.6.2 Special consideration

We can give special consideration to students who have been disadvantaged at the time of the assessment through no fault of their own – for example a temporary illness, injury or serious problem such as the death of a relative. We can only do this **after** the assessment.

Your exams officer should apply online for special consideration at aqa.org.uk/eaqa

For more information and advice about access arrangements, reasonable adjustments and special consideration please see aqa.org.uk/access or email accessarrangementsqueries@aqa.org.uk

5.7 Working with AQA for the first time

If your school or college has not previously offered any AQA specification, you need to register as an AQA centre to offer our specifications to your students. Find out how at aqa.org.uk/becomeacentre

5.8 Private candidates

This specification is available to private candidates.

A private candidate is someone who enters for exams through an AQA-approved school or college but is not enrolled as a student there.

A private candidate may be self-taught, home-schooled or have private tuition, either with a tutor or through a distance learning organisation. You must be based in the UK.

Private candidates entered for this specification must comply with the requirements set out in [Section B: Fieldwork](#) (page 27). This states that fieldwork must take place outside school grounds on two separate occasions.

The head of the AQA-approved school or college the private candidate is entering with must sign a written statement confirming the candidate has completed fieldwork. This could be through evidence presented by the candidate and questioning about the fieldwork enquiry, or by a teacher from the centre supervising the candidate's fieldwork activity.

If you have any queries as a private candidate, you can:

- speak to the exams officer at the school or college where you intend to take your exams
- visit our website at aqa.org.uk/privatecandidates
- email: privatecandidates@aqa.org.uk

Get help and support

Visit our website for information, guidance, support and resources at aqa.org.uk/8035

You can talk directly to the Geography subject team:

E: geography@aca.org.uk

T: 01483 477 791