

KS5 – Geography

Year 13

#### **Golden Threads**

Why are resources so important to people? How do resources create conflict? Why is sustainable resource use so important for a stable future?

How does international cooperation and communication enhance global unity? What role do international organisation play in promoting peace?

**Enrichment** 

**Review and Evaluation** 

#### Topics & Substantive Knowledge

# Resource security (Studied in term 1 and 2): Selected option: Resource security in AQA A-level Geography covers the availability and sustainability of natural resources like water, energy, food, and minerals. It delves into factors affecting distribution, consumption patterns, and potential impacts of scarcity on societies and environments. Topics include management strategies, geopolitical implications, and challenges posed by global change, population growth, and economic development. It emphasises sustainable resource management's importance for future generations.

The core knowledge and key facts of this topic are:

#### Resource security

This optional section of our specification focuses on the large-scale exploitation of unevenly distributed natural resources, which is one of the defining features of the present era. Increasing demand for water, energy and minerals and their critical role in human affairs leads to massive local and regional transfers of water and massive global transfers of energy and minerals.

#### Resource development

Concept of a resource. Resource classifications to include stock and flow resources. Stock resource evaluation: measured reserves, indicated reserves, inferred resources, possible resources. Natural resource development over time: exploration, exploitation, development. Concept of the resource frontier. Concept of resource peak.

Sustainable resource development. Environmental Impact Assessment (EIA) in relation to resource development projects.

#### **Disciplinary Knowledge**

Students will gain and develop this knowledge through:

- Teaching of key ideas and processes using a variety of texts, audio-visual and other media
- Testing of knowledge and understanding of key vocabulary
- Doing past paper questions to practise the key skills of analysis and assessment already developed in previous modules. This will be done both as homework and in lessons to practise timings
- Referring to current events to contextualise knowledge and understanding of the syllabus
- Consistent approach to lessons designed to impart knowledge, theories and case studies and build students notes
- Discussions and debates to encourage critical engagement with the material, share their perspectives, and challenge their understanding
- Case studies and real-world examples which enriches students' understanding of geographical concepts
- Fieldwork and practical activities to collect data and analyse findings
- Independent project to encourage independent study allowing students to delve deeper into a topic of interest
- Assessments and feedback to monitor progress and offer suggestions on areas to improve

#### Assessment

used to help

assess work and

identify areas of

improvement or

development

Past paper **Assuming Resources are** questions Infinite: Many students tend to overlook the finite nature 20 marks: of resources, particularly planning, non-renewable ones such modelling, and as fossil fuels or minerals. attempting They might assume that extended these resources will always questions which be available without will appear considering the implications on the exam of their depletion. paper - taken from exampro **Neglecting Distribution** and past paper questions. Mark schemes

Inequities: Students sometimes overlook the uneven distribution of resources globally. They may fail to recognize that while some regions are abundant in certain resources, others face scarcity, leading to geopolitical tensions and conflicts.

**Misconceptions** 

Overlooking Environmental Impacts: Some students focus solely on the economic aspects of resource extraction and consumption, neglecting the environmental consequences. They may not fully grasp the concept of sustainable resource management and the need to balance economic development with environmental preservation.

#### **Key Vocabulary**

Carbon Trading - The restriction of carbon emissions by countries or companies. Companies under their carbon emissions cap can 'sell' to other companies. Decentralised Energy - Energy produced away from the National Grid and close to where it will be used.

Energy Mix - The composition of a country's energy sources. Energy Security - The ownership and full control of a country's energy source, production and transportation.

Energy Pathway - The movement of energy from its extraction or source, through pipes, freight logistics or cabling.

Energy Players - Key companies and individuals who own, distribute and sell energy and energy sources.

Environmental Impact Assessment (EIA) - An assessment of the possible environmental impacts of a resource development project.

**Exploitation** - The process of extracting the resource.

#### **Knowledge Tracking**

Students complete regular vocabulary tests at the start of each lesson and as soon as is practicable will start to attempt past-paper exam questions.

Internal mock exams on this and some of the other modules are conducted during term 5 or 6.

Students will regularly complete do now knowledge tests at the beginning of the lesson to assist in recalling keywords and key concepts gained in previous lessons. Students will be asked to complete regular homework's to consolidate and further their ideas of key concepts, theories, case studies and geographical skills.

Students' progress will be tracked based on their performance to identify areas of strength and weakness and tailor lessons to ensure skills are being refined and enhanced. An open dialogue will be maintained with students to ensure they are aware of their progress and to understand areas they can focus and improve on.





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	Topics & Substantive Knowledge	Disciplinary Knowledge	Assessment	Misconceptions	Key Vocabulary	Knowledge Tracking
Term 1 and 2	Resource security (cont)  Natural resource issues Global patterns of production, consumption and trade/movements of energy and ore minerals. Global patterns of water availability and demand.  The geopolitics of energy, ore mineral and water resource distributions, trade and management.  Water security Sources of water; components of demand, water stress.  Relationship of water supply (volume and quality) to key aspects of physical geography – climate, geology and drainage.  Strategies to increase water supply to include catchment, diversion, storage and water transfers and desalination.  Environmental impacts of a major water supply scheme incorporating a major dam and/or barrage and associated distribution networks.  Strategies to manage water consumption (including reducing demand).  Sustainability issues associated with water management: virtual water trade, conservation, recycling, 'greywater' and groundwater management.  Water conflicts at a variety of scales – local, national, international.  Energy security  Sources of energy, both primary and secondary.  Components of demand and energy mixes in contrasting settings.  Relationship of energy supply (volume and quality) to key aspects of physical geography – climate, geology and drainage.  Energy supplies in a globalising world: competing national interests and the role of transnational corporations in energy production, processing and distribution.			Ignoring Social and Cultural Factors: Students may overlook the social and cultural dimensions of resource security, such as indigenous rights, land tenure systems, and cultural practices related to resource use. They may fail to understand how these factors influence resource management strategies and outcomes.  Underestimating Technological Solutions: While technology can play a crucial role in resource management and security, students may overestimate its ability to solve resource-related challenges. They may overlook the complexities involved in implementing technological solutions and the need for broader systemic changes.	Greywater Recycling - Reusing water already used in a non-toxic process (washing pots, etc).  Hubbert's Curve - The amount of resources extracted by a country over time, which follows a bell- shaped curve.  Integrated Water Resource Management (IWRM) - Managing the supply of water from a river basin, optimising the supply of water whilst protecting the environment and ensuring fair distribution of water.  Mineral - A naturally occurring compound formed by chemical processes.  Non-Renewable or stock- A source of energy that can only be used once to generate electricity or takes thousands of years to replace.  Nuclear Fusion - The process of joining atomic nuclei together, to produce energy.  Primary Energy - The initial source of energy, as it is naturally found. This could be natural ores, water, crops or radioactive material  Rainwater Harvesting System (RHS) - Collecting rainwater for use. Rainwater is cleaner than greywater.	

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Resource security (cont) Environmental impacts of a major energy resource development such as an oil, coal or gas field and associated distribution networks.  Strategies to increase energy supply (oil and gas exploration, nuclear power and development of renewable or sources).  Strategies to manage energy consumption (including reducing demand).  Sustainability issues associated with energy production, trade and consumption: aid of ain, the enhanced generolouse effect, unclear waste and energy conservation.  Mineral security With reference to iron ore or a specified globally traded non-ferrous metal ore eg coppet, tin, manganese.  Sources of the specified one. Distribution of reserves/resources. End uses of the ore. Components of demand for ore. Role of specified ore in global commerce and indicatry.  Environmental impacts of a major mineral resource extraction, scheme and associated distribution or restraction scheme and associated distribution or restractions, scheme and associated distribution or restraction scheme and associated distribution or restraction scheme and associated distribution or restraction, scheme and associated distribution or restraction, scheme and associated distribution or restraction, scheme and associated distribution or restraction inclustry.  Sustainabile Resource Development - Long-term planning to ensure the rate of estraction networks.  Sustainabile Resource Development - Long-term planning to ensure the rate of estraction networks.  Sustainabile Resource The trade of processing.  Resource futures Alternative energy water and mineral ore futures and their relationship with a range of		Topics & Substantive Knowledge	Disciplinary Knowledge	Assessment	Misconceptions	Key Vocabulary	Knowledge Tracking
technological, economic, environmental and political developments.  Water Stress - Demand for water exceeds the supply of clean, non-polluted water. Water Scarcity - Renewable water supply is less than	1 and	Resource security (cont)  Environmental impacts of a major energy resource development such as an oil, coal or gas field and associated distribution networks.  Strategies to increase energy supply (oil and gas exploration, nuclear power and development of renewable sources).  Strategies to manage energy consumption (including reducing demand).  Sustainability issues associated with energy production, trade and consumption: acid rain, the enhanced greenhouse effect, nuclear waste and energy conservation.  Mineral security  With reference to iron ore or a specified globally traded non-ferrous metal ore eg copper, tin, manganese.  Sources of the specified ore. Distribution of reserves/resources. End uses of the ore.  Components of demand for ore. Role of specified ore in global commerce and industry.  Key aspects of physical geography associated with ore occurrence and working: geological conditions and location.  Environmental impacts of a major mineral resource extraction scheme and associated distribution networks.  Sustainability issues associated with ore extraction, trade and processing.  Resource futures  Alternative energy, water and mineral ore futures and their relationship with a range of technological, economic, environmental and				energy that can be re-used to produce electricity or has a short lifetime, therefore any used can be replaced quickly e.g. Hydroelectric, biomass, solar.  Resource - Any type of asset, commodity or item which can enhance the quality of life or improve a function's efficiency.  Resource Frontier - The boundary between exploited area and areas considered too difficult to exploit.  Secondary Energy - The product of primary energy, mostly electricity.  Stock Resource - A resource of finite supply and so will run out eventually e.g. Fossil Fuels.  Sustainable Resource  Development - Long-term planning to ensure the rate of extraction doesn't rise above an unsustainable level.  Virtual Water Trade - The trade of items that have a water footprint.  Water Conflict - Any disagreement between groups of people over water resources.  Water Stress - Demand for water exceeds the supply of clean, non-polluted water. Water Scarcity - Renewable	



Substantive Knowledge	Disciplinary Knowledge	Assessment	Misconceptions	Key Vocabulary	Knowledge Tracking
Resource security (cont)  Case studies  Case study of either water or energy or mineral ore resource issues in a global or specified regional setting to illustrate and analyse theme(s) set out above, their implications for the setting including the relationship between resource security and human welfare and attempts to manage the resource Water in SW USA  Case study of a specified place to illustrate and analyse how aspects of its physical environment affects the availability and cost of water or energy or mineral ore and the way in which water or energy or mineral ore is used Energy in NZ	Disciplinary Knowledge	Assessment	Misconceptions	Water Footprint - The water demand per person for the services you use and products you consume.	Knowledge Tracking

Globalisation:

and consumption.

agreements.

Dimensions of globalisation: flows of capital.

labour, products, services and information; global

technologies, systems and relationships, including

marketing; patterns of production, distribution

Factors in globalisation: the development of

financial, transport, security, communications, management and information systems and trade



#### **Curriculum Plan**

KS5 – Geography

#### Year 13 **Topics & Disciplinary Knowledge Misconceptions Key Vocabulary Knowledge Tracking Assessment Substantive Knowledge** Students will gain and develop this knowledge Past paper Misconception: Global Global Governance Students complete regular Global governance (Studied in term **Governance Equals** vocabulary tests at the start of through: questions: 1 and 2): Global governance in AQA A-level International Institutions World Government: each lesson and as soon as is planning, Geography examines international cooperation Teaching of key ideas and processes using a Intergovernmental modelling, and Some students may practicable will start to attempt and decision-making on global challenges like variety of texts, audio-visual and other media Organizations (IGOs) erroneously believe past-paper exam questions. attempting climate change, human rights, and trade. It Non-Governmental extended that global governance Testing of knowledge and understanding of key explores roles of organizations such as the UN, Internal mock exams on this and Organizations (NGOs) implies a centralized world questions which vocabulary some of the other modules are World Bank, and regional blocs, and debates will appear government with authority Multinational Corporations sovereignty and effectiveness. Students gain conducted during term 5 or 6. Doing past paper questions to practise the on the exam over all nations. In reality, (MNCs) insights into managing global issues and the Students will regularly complete key skills of analysis and assessment already paper - taken global governance refers potential and limits of international cooperation. Sovereignty do now knowledge tests at the developed in previous modules. This will be from exampro to the complex system of beginning of the lesson to assist done both as homework and in lessons to Diplomacy and past paper institutions, agreements, The core knowledge and key facts of this topic are: in recalling keywords and key practise timings and processes through auestions. Treaties This section of our specification focuses on concepts gained in previous Mark schemes which nations, international globalisation - the economic, political and social Referring to current events to contextualise Conventions lessons. Students will be asked used to help organizations, and nonchanges associated with technological and other knowledge and understanding of the syllabus to complete regular homework's United Nations (UN) assess work and state actors collaborate to driving forces which have been a key feature of to consolidate and further their Consistent approach to lessons designed to identify areas of address global issues. World Trade Organization global economy and society in recent decades. ideas of key concepts, theories, impart knowledge, theories and case studies (WTO) improvement or Misconception: Global case studies and geographical and build students notes development International Monetary Fund Increased interdependence and transformed Governance Is Always skills. (IMF) Effective: Another relationships between peoples, states and Discussions and debates to encourage Students' progress will be tracked environments have prompted more or less common misconception critical engagement with the material, share World Bank based on their performance to successful attempts at a global level to manage is that global governance their perspectives, and challenge their United Nations Security identify areas of strength and and govern some aspects of human affairs. mechanisms are always understanding Council (UNSC) weakness and tailor lessons to Students engage with important dimensions of successful in addressing ensure skills are being refined Case studies and real-world examples International Court of Justice these phenomena with particular emphasis on global challenges. While and enhanced. An open dialogue which enriches students' understanding of global governance plays (ICJ) international trade and access to markets and will be maintained with students geographical concepts the governance of the global commons. Students a crucial role in tackling Regional Organizations (e.g., to ensure they are aware of their contemplate many complex dimensions of issues like climate change. European Union, African Fieldwork and practical activities to collect progress and to understand areas contemporary world affairs and their own place poverty, and human rights, Union) data and analyse findings they can focus and improve on. in and perspective on them. Study of this section its effectiveness can be Globalization offers the opportunity to exercise and develop Independent project to encourage hindered by factors such Transnational Issues both qualitative and quantitative approaches to independent study allowing students to delve as power imbalances. gathering, processing and interpreting relevant deeper into a topic of interest sovereignty concerns. Diplomatic Negotiation information and data including, those associated and lack of enforcement **Human Rights** Assessments and feedback to monitor progress with and arising from fieldwork. mechanisms. **Environmental Governance** and offer suggestions on areas to improve

Misconception: Global

Governance Is Uniform

students may assume that

in the same way across all

governance structures vary

issues. However, global

global governance operates

Across Issues: Some

Sustainable Development

(e.g., Paris Agreement)

**Economic Governance** 

**Development Aid** 

Climate Change Agreements

Goals (SDGs)



one manufacturing product.

# **Curriculum Plan**

band with some gross such as	oment Aid cional Law seping Operations Health Governance
Global systems:  Form and nature of economic, political, social and environmental interdependence in the contemporary world.  Issues associated with interdependence including trade or security, having well-established institutions like the World Trade Organization or United Nations Security Council, while others, like applications are contemporary world.	



	Topics & Substantive Knowledge	Disciplinary Knowledge	Assessment	Misconceptions	Key Vocabulary	Knowledge Tracking
	Analysis and assessment of the geographical consequences of global systems to specifically consider how international trade and variable access to markets underly and impacts on students' and other people's lives across the globe.					
	Global governance The emergence and developing role of norms, laws and institutions in regulating and reproducing global systems.					
	Issues associated with attempts at global governance, including how:					
	<ul> <li>agencies, including the UN in the post- 1945 era, can work to promote growth and stability but may also exacerbate inequalities and injustices</li> </ul>					
and	<ul> <li>interactions between the local, regional, national, international and global scales are fundamental to understanding global governance.</li> </ul>					
lerm I	The 'global commons'					
	The concept of the 'global commons'. The rights of all to the benefits of the global commons.  Acknowledgement that the rights of all people to sustainable development must also acknowledge the need to protect the global commons.					
	Antarctica as a global common					
	An outline of the contemporary geography, including climate, of Antarctica (including the Southern Ocean as far north as the Antarctic Convergence) to demonstrate its role as a global common and illustrate its vulnerability to global economic pressures and environmental change.					
	The 'global commons'					
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Sub	Topics & stantive Knowledge	Disciplinary Knowledge	Assessment	Misconceptions	Key Vocabulary	Knowledge Tracking
An outline of including clin Southern Octoonvergence common and	a global common if the contemporary geography, mate, of Antarctica (including the ean as far north as the Antarctic e) to demonstrate its role as a global dillustrate its vulnerability to global essures and environmental change.					
Threats to Ar	ntarctica arising from:					
• climate	change					
• fishing	and whaling					
• the sea	rch for mineral resources					
Critical appra of Antarctica organisations agencies suc Programme ( Commission. Protocol on E Antarctic Tre (1982) – thei inspection ar The role of N enhancing pr assessment of global gov Antarctica ar how global g	n and scientific research.  aisal of the developing governance . International government s to include United Nations (UN) h as United Nations Environment (UNEP) and the International Whaling The Antarctic Treaty (1959), the Environmental Protection to the aty (1991); IWC Whaling Moratorium r purpose, scope and systems for nd enforcement.  IGOs in monitoring threats and rotection of Antarctica. Analysis and of the geographical consequences ernance for citizens and places in nd elsewhere to specifically consider overnance underlies and impacts and other people's lives across the					
benefits of g	n critique of globalisation to consider the rowth, development, integration, nst the costs in terms of inequalities, afflict and environmental impact.					
must engage	and qualitative skills. Students with quantitative and qualitative across the theme as a whole.					



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	Topics & Substantive Knowledge	Disciplinary Knowledge	Assessment	Misconceptions	Key Vocabulary	Knowledge Tracking
Term 3	Non-examined Assessment  (NEA) - The AQA A-level Geography NEA involves independent research on a chosen geographical topic, utilizing primary and secondary data sources and applying concepts and theories. Structured around aims, methodology, data analysis, and conclusions, the project requires clear links between research questions and findings. Teachers support students in topic selection and report structure, with assessment criteria focusing on research quality and presentation. This component contributes significantly to the final grade, fostering research skills, knowledge application, and effective communication for future study or employment in geography.  The core knowledge and key facts of this topic are: See above.	<ul> <li>Students will gain and develop this knowledge through:</li> <li>Teaching of key ideas and processes using a variety of texts, audio-visual and other media</li> <li>Testing of knowledge and understanding of key vocabulary</li> <li>Doing past paper questions to practise the key skills of analysis and assessment already developed in previous modules. This will be done both as homework and in lessons to practise timings</li> <li>Referring to current events to contextualise knowledge and understanding of the syllabus</li> <li>Consistent approach to lessons designed to impart knowledge, theories and case studies and build students notes</li> <li>Discussions and debates to encourage critical engagement with the material, share their perspectives, and challenge their understanding</li> <li>Case studies and real-world examples which enriches students' understanding of geographical concepts</li> <li>Fieldwork and practical activities to collect data and analyse findings</li> <li>Independent project to encourage independent study allowing students to delve deeper into a topic of interest</li> <li>Assessments and feedback to monitor progress and offer suggestions on areas to improve</li> </ul>	See above.	See above.	Validity The suitability of the method to answer the question that it was intended to answer. Reliability This is the extent to which measurements are consistent.  NEAs are less important than exams. NEAs are less rigorous than exams. NEAs don't require as much preparation as exams. NEAs can be completed quickly at the last minute. NEAs don't contribute to learning as much as exams. NEAs are primarily about getting the right answer.	See above.

Topics & Substantive Knowledge	Disciplinary Knowledge	Assessment	Misconceptions	Key Vocabulary	Knowledge Tracking
Revision – following the revision Olympics structure, students will utilise lesson time to review notes, prepare revision materials and apply this to a range of exam questions. Exam skills, technique and model answers will also be provided to support in students' application of their knowledge and considering the skills required to answer each style of question.  The core knowledge and key facts of this topic are:  Water and carbon  Hazards  Coasts  Global Governance  Resource management  Changing places	<ul> <li>Students will gain and develop this knowledge through:</li> <li>Teaching of key ideas and processes using a variety of texts, audio-visual and other media</li> <li>Testing of knowledge and understanding of key vocabulary</li> <li>Doing past paper questions to practise the key skills of analysis and assessment already developed in previous modules. This will be done both as homework and in lessons to practise timings</li> <li>Referring to current events to contextualise knowledge and understanding of the syllabus</li> <li>Consistent approach to lessons designed to impart knowledge, theories and case studies and build students notes</li> <li>Discussions and debates to encourage critical engagement with the material, share their perspectives, and challenge their understanding</li> <li>Case studies and real-world examples which enriches students' understanding of geographical concepts</li> <li>Fieldwork and practical activities to collect data and analyse findings</li> <li>Independent project to encourage independent study allowing students to delve deeper into a topic of interest</li> <li>Assessments and feedback to monitor progress and offer suggestions on areas to improve</li> </ul>	Past paper questions 20 marks: planning, modelling, and attempting extended questions which will appear on the exam paper – taken from exampro and past paper questions. Mark schemes used to help assess work and identify areas of improvement or development.	See above for each topic.	See above for each topic.	Students complete regular vocabulary tests at the start of each lesson and as soon as is practicable will start to attempt past-paper exam questions.  Internal mock exams on this and some of the other modules are conducted during term 5 or 6.  Students will regularly complete do now knowledge tests at the beginning of the lesson to assist in recalling keywords and key concepts gained in previous lessons. Students will be asked to complete regular homework's to consolidate and further their ideas of key concepts, theories, case studies and geographical skills.  Students' progress will be tracked based on their performance to identify areas of strength and weakness and tailor lessons to ensure skills are being refined and enhanced. An open dialogue will be maintained with students to ensure they are aware of their progress and to understand areas they can focus and improve on.



	Topics & Substantive Knowledge	Disciplinary Knowledge	Assessment	Misconceptions	Key Vocabulary	Knowledge Tracking
Term 5	Revision - following the revision Olympics structure, students will utilise lesson time to review notes, prepare revision materials and apply this to a range of exam questions. Exam skills, technique and model answers will also be provided to support in students' application of their knowledge and considering the skills required to answer each style of question.  The core knowledge and key facts of this topic are:  Water and carbon  Hazards  Coasts  Global Governance  Resource management  Changing places	<ul> <li>Students will gain and develop this knowledge through:</li> <li>Teaching of key ideas and processes using a variety of texts, audio-visual and other media</li> <li>Testing of knowledge and understanding of key vocabulary</li> <li>Doing past paper questions to practise the key skills of analysis and assessment already developed in previous modules. This will be done both as homework and in lessons to practise timings</li> <li>Referring to current events to contextualise knowledge and understanding of the syllabus</li> <li>Consistent approach to lessons designed to impart knowledge, theories and case studies and build students notes</li> <li>Discussions and debates to encourage critical engagement with the material, share their perspectives, and challenge their understanding</li> <li>Case studies and real-world examples which enriches students' understanding of geographical concepts</li> <li>Fieldwork and practical activities to collect data and analyse findings</li> <li>Independent project to encourage independent study allowing students to delve deeper into a topic of interest</li> <li>Assessments and feedback to monitor progress and offer suggestions on areas to improve</li> </ul>	Past paper questions 20 marks: planning, modelling, and attempting extended questions which will appear on the exam paper – taken from exampro and past paper questions. Mark schemes used to help assess work and identify areas of improvement or development.	See above for each topic.	See above for each topic.	Students complete regular vocabulary tests at the start of each lesson and as soon as is practicable will start to attempt past-paper exam questions.  Internal mock exams on this and some of the other modules are conducted during term 5 or 6.  Students will regularly complete do now knowledge tests at the beginning of the lesson to assist in recalling keywords and key concepts gained in previous lessons. Students will be asked to complete regular homework's to consolidate and further their ideas of key concepts, theories, case studies and geographical skills.  Students' progress will be tracked based on their performance to identify areas of strength and weakness and tailor lessons to ensure skills are being refined and enhanced. An open dialogue will be maintained with students to ensure they are aware of their progress and to understand areas they can focus and improve on.