GCSE Geography (OCR B) Pupil Learning Checklist (PLC)

Paper 1 – Our Natural World (Physical Geography)

GLOBAL HAZARDS UNIT:

Vov.ldoa	Contont	PLC			
Key Idea	Content	RED AMBER GREEN		GREEN	Revised?
	The structure of the Earth and how it is linked to the				
	processes of plate tectonics including convection currents.				
a. What processes	The processes that take place at constructive, destructive,				
occur at plate	conservative and collision plate boundaries as well as				
boundaries?	hotspots				
boundaries.	How the movement of tectonic plates causes earthquakes,				
	including shallow and deep focus, and volcanoes, including				
	shield and composite				
b. How can tectonic	A case study of a tectonic event that has been hazardous				
movement be	for people, including specific causes, consequences of and				
hazardous?	responses to the event: The Haiti Earthquake 2010				
c. How does	How technological developments can have a positive				
technology have	impact on mitigation (such as building design, prediction,				
the potential to	early warning systems) in areas prone to a tectonic hazard				
save lives in hazard	of your choice.				
zones?	·				
	Outline of the global circulation system including the				
	effects of high and low pressure belts in creating climatic				
	zones.				
	How the global circulation of the atmosphere causes				
	extremes in weather conditions in different parts of the				
	world.				
d. Why do we have	The extremes in weather conditions associated with wind,				
weather extremes?	temperature and precipitation in contrasting countries.				
	The distribution and frequency of tropical storms and				
	drought, and whether these have changed over time.				
	Outline the causes of the extreme weather conditions				
	associated with tropical storms.				
	Outline the causes of the extreme weather conditions of El				
	Niño/La Niña leading to drought.				
	Case studies of two contrasting natural weather hazard				
	events arising from extreme weather conditions. The case				
	studies must include a natural weather hazard from each				
e. When does	bullet point below:				
extreme weather					
become a hazard?	• flash flooding or tropical storms: Typhoon Haiyan 2013.				
	heat wave or drought. There must be one UK based and				
	one non-UK based natural weather hazard event: UK				
	Heatwave and Drought 2015				

CHANGING CLIMATE UNIT

Vo. Idoo	Content R		PLC		
Key Idea			AMBER	GREEN	Revised?
	The pattern of climate change from the beginning of the				
a. What evidence is	Quaternary period to the present day.				
there for climate	The range and reliability of evidence relating to climate				
change?	change including evidence from sea ice positions, ice cores,				
	global temperature data, paintings and diaries.				
	Outline the causes of natural climate change including the				
	theories of sun spots, volcanic eruptions and Milankovitch				
b. Is climate change	cycles.				
a natural process?	Investigate the natural greenhouse effect and the impacts				
	that humans have on the atmosphere, including the				
	enhanced greenhouse effect.				
	Explore a range of social, economic and environmental				
	impacts of climate change worldwide such as those				
	resulting from sea level rise (Tuvalu case study) and				
c. Why is climate	extreme weather events. The impacts studied should relate				
change a global	to the 21st century.				
issue?	Explore a range of social, economic and environmental				
13300:	impacts of climate change within the UK (case study) such				
	as the impact on weather patterns, seasonal changes and				
	changes in industry. The impacts studied should relate to				
	the 21st century.				

DISTINCTIVE LANDSCAPES UNIT

Marrilda a	Combont		PLC		
Key Idea	Content	RED AMBER GF		GREEN	Revised?
a. What is a	How the concept of a landscape can be defined, including				
landscape?	the differences between built and natural landscapes.				
	Overview of the distribution of upland, lowland and				
b. Where are the	glaciated landscapes in the UK.				
physical landscapes	Overview of the characteristics of these landscapes which				
of the UK?	make them distinctive including their geology, climate and				
	human acti				
	The geomorphic processes that are involved in shaping				
	landscapes, including weathering (mechanical, chemical,				
	biological), mass movement (sliding, slumping), erosion				
c. What physical	(abrasion, hydraulic action, attrition, solution), transport				
processes shape	(traction, saltation, suspension, solution), deposition.				
landscapes?	The formation of coastal landforms including headlands,				
	bays , cave, arch, stack, beach and spit.				
	The formation of river landforms including waterfall, gorge,				
	v-shaped valley, floodplain, levee, meander, ox-bow lake.				
	Case study of two landscapes in the UK, one coastal				
	landscape (Walton on the Naze Case Study) and one river				
	basin (River Tee's Case Study), to include the study of:				
d. What are the characteristics of	• its landforms created by geomorphic processes				
your chosen	 the geomorphic processes operating at different scales 				
landscapes?	and how they are influenced by geology and climate				
	 how human activity, including management, works in 				
	combination with geomorphic processes to impact the landscape.				

SUSTAINING ECOSYSTEMS UNIT

Key Idea	Content	PLC			
key luea	Content	RED	AMBER	GREEN	Revised?
	Understand the concept of an ecosystem as being the				
	interdependence of climate, soil, water, plants and				
	animals.				
a. What are	Outline the global distribution of polar regions, coral reefs,				
ecosystems?	grasslands, temperate forests, tropical forests and hot				
	deserts.				
	Overview of the climate, flora and fauna within these				
	ecosystems.				
	The distinctive characteristics of a tropical rainforest				
b. What biodiversity	ecosystem, including the climate, nutrient cycle, soil				
exists in tropical	profile and water cycle.				
rainforests?	The interdependence of climate, soil, water, plants,				
	animals and human activity in tropical rainforests.				
	Explore the value of tropical rainforests through the study				
	of their goods and services.				
	Human impacts in the tropical rainforest from activities				
c. Why are tropical	such as logging, mineral extraction, agriculture and				
rainforests being	tourism.				
'exploited' and how	A case study to illustrate attempts to sustainably manage				
can this be managed	an area of tropical rainforest, such as ecotourism,				
sustainably?	community programmes, biosphere reserves and				
	sustainable forestry, at a local or regional scale: Costa Rica				
	and the Samasati Nature Retreat/Reserve				
	Outline the distinctive characteristics of Antarctica and the				
	Arctic, including climate, features of the land and sea, flora				
	and fauna.				
d Mhatia it lika in	The interdependence of climate, soil, water, plants,				
d. What is it like in	animals and human activity in either the Antarctic or the				
Antarctica and the Arctic?	Arctic polar region.				
Arctic:	Explore a range of impacts of human activity on either the				
	Antarctic or the Arctic ecosystems, such as scientific				
	research, indigenous people, tourism, fishing, whaling and				
	mineral exploitation.				
	A case study to examine one small-scale example of				
	sustainable management in either the Antarctic or the				
e. How are humans	Arctic such as sustainable tourism, conservation and				
seeking a	whaling: The Ice Hotel, Sweden.				
sustainable solution	A case study to examine one global example of sustainable				
for polar	management in either the Antarctic or the Arctic by				
environments?	investigating global actions such as Earth Summits or the				
	Antarctic Treaty: The Artic Council and the Paris				
	Agreement				

Physical Fieldwork

The following areas of fieldwork will be assessed, through both learners' own experiences of fieldwork and unfamiliar contexts:

Kov Idoo	Contont		PLC		
Key Idea	Content	RED	AMBER	GREEN	Revised?
	Understanding of the kinds of question capable of being investigated through fieldwork and an understanding of the geographical enquiry processes appropriate to investigate these.				
Walton on the Naze Fieldwork.	Understanding of the range of techniques and methods used in fieldwork, including observation and different kinds of measurement.				
Investigation title: What coastal	Processing and presenting fieldwork data in various ways including maps, graphs and diagrams.				
processes are occurring at Walton and should they be managed?	Analysing and explaining data collected in the field using knowledge of relevant geographical case studies and theories.				
	Drawing evidenced conclusions and summaries from fieldwork transcripts and data.				
	Reflecting critically on fieldwork data, methods used, conclusions drawn and knowledge gained.				

Paper 2 – People and Society (Human Geography)

URBAN FUTURES UNIT

Key Idea	Content	PLC			
-		RED	RED AMBER GREEN		Revised?
a. How is the global	How urban growth rates vary in parts of the world with				
pattern of	contrasting levels of development.				
urbanisation	Outline characteristics of world cities and megacities and				
changing?	their changing distribution since 1950.				
	Understand the causes of rapid urbanisation in LIDCs,				
	including the push and pull factors of rural-urban				
b. What does rapid	migration and internal growth.				
urbanisation mean	Investigate the consequences of rapid urban growth in				
for cities?	LIDCs: Kibera Slum Case Study				
	Understand the causes and consequences of contrasting				
	urban trends in ACs, including suburbanisation, counter-				
	urbanisation and re-urbanisation				
	Case study of an AC city: Birmingham:				
	The city's location and importance within its region, the				
	country, and the wider world.				
	Patterns of national and international migration and				
	how this is changing the growth and character of the city.				
	Explore the ways of life in the city, such as culture,				
	ethnicity, housing, leisure and consumption.				
	Investigate the contemporary challenges that affect life				
	in the city, such as housing availability, transport				
	provision, access to services and inequality.				
	Investigate the contemporary challenges that affect life				
	in the city				
	Investigate one initiative to make the city more				
	sustainable: The Library				
c. What is life like for	Sustamasie: The Library				
people in a city?	Case study of an EDC city: Istanbul, Turkey:				
	The city's location and importance within its region, the				
	country, and the wider world.				
	Patterns of national and international migration and				
	how this is changing the growth and character of the city.				
	Explore the ways of life in the city, such as culture,				
	ethnicity, housing, leisure and consumption.				
	Investigate the contemporary challenges that affect life				
	in the city, such as housing availability, transport				
	provision, access to services and inequality.				
	Investigate the contemporary challenges that affect life				
	in the city				
	Investigate one initiative to make the city more				
	sustainable: Transport system				

DYNAMIC DEVELOPMENT UNIT

Va., Idaa	Combont		PLC			
Key Idea	Content	RED	AMBER	GREEN	Revised?	
	Definition of 'development' and the ways in which					
a. What is	countries can be classified, such as AC, EDC and LIDC.					
development and	Global distribution of ACs, EDCs and LIDCs.					
how can it be	Economic and social measures of development, such as					
measured?	GNI per capita and Human Development Index, and how					
	they illustrate the consequences of uneven development.					
b. What has led to	Outline the human and physical factors influencing global uneven development.					
uneven	Explore the factors that make it hard for countries to break					
development?	out of poverty, including debt, trade and political unrest.					
	Overview of the economic development of an LIDC,					
	including influences of population, society, technology and					
	politics, particularly in the past 50 years, or post-					
	independence: Zambia					
c. How has Zambia	Explore whether Rostow's model can help determine the					
as an LIDC	country's path of economic development: Zambia					
developed so far?	The extent to which the relevant Millennium Development					
	Goals have been achieved for this LIDC: Zambia					
	Investigate how the LIDC's wider political, social and					
	environmental context has affected its development:					
	Zambia					
	The country's international trade, such as potential					
d. What global	reliance on a single, or few, commodities and how this					
connections	influences development: Zambia Copper					
influence Zambia's	The benefits and problems of trade and Trans National					
development?	Company (TNC) investment for development: Zambia					
development:	The advantages and disadvantages of international aid or					
	debt relief for its development: Zambia and Water Aid					
c. What						
development	Compare the advantages and disadvantages of one top-					
strategy is most	down (Kariba Dam case study) and one bottom-up (Room					
appropriate in Zambia ?	to Read case study) strategy in Zambia.					

UK IN THE 21st CENTURY UNIT

W I - I	Comtont		PLC			
Key Idea	Content	RED	AMBER	GREEN	Revised?	
	Overview of human and physical geographical					
a. What does the UK	characteristics of the UK (case study), including					
look like in the 21st	population density, land use, rainfall and relief, and					
century?	significant issues associated with these characteristics,					
	including water stress and housing shortages.					
	Overview of population trends in the UK since 2001,					
	using population pyramids and migration statistics, to					
	determine its position on the Demographic Transition					
	Model.					
b. How is the UK's	An understanding of the causes, effects, spatial					
population changing?	distribution and responses to an ageing population:					
	UK Ageing population case study					
	A summary of the how the population structure and					
	ethnic diversity of a named place of the UK has					
	changed since 2001: London case study					
	Identify major economic changes in the UK since 2001					
	by examining changes in the job market including					
	political priorities, changing employment sectors and					
c. How is the UK's	working hours.					
economy changing?	Investigate the pattern of core UK economic hubs.					
	Identify the changes in one economic hub and its					
	significance to its region and the UK: Cambridge case					
	study					
d. What is the UK's	Examine the UK's political role in one global conflict					
	through its participation in international organisations:					
political role in the world?	Case study of the UK's involvement in Iraq and the					
world:	Middle East					
	Explore the UK's media exports and their global					
e. How is the UK's	influence including television programmes and film.					
cultural influence	The contribution of ethnic groups to the cultural life of					
changing?	the UK through food: UK Food and the Chicken Tikka					
	Masala					

RESOURCE RELIANCE UNIT

	<u>.</u>		PLC		
Key Idea	Content	RED	AMBER	GREEN	Revised?
	Outline the factors leading to demand outstripping				
	supply of food, energy and water.				
	Overview of how environments and ecosystems are				
	used and modified by humans including:				
a. How has increasing					
demand for resources	 mechanisation of farming and commercial fishing to provide food 				
affected our planet?	provide rood				
	deforestation and mining to provide energy				
	reservoirs and water transfer schemes to provide				
	water.				
	Understand the term 'food security' and the human				
	and physical factors which influence this.				
	How world patterns of access to food are illustrated,				
b. What does it mean to	such as the world hunger index and average daily				
be food secure?	calorie consumption.				
	Investigate the differences between Malthus and				
	Boserup theories about the relationship between				
	population and food supply.				
	Tanzania Case study of attempts to achieve food				
	security to include:				
	Investigation of statistics relating to food				
	consumption and availability over time.				
	, , , , , , , , , , , , , , , , , , , ,				
	The success of one attempt in helping achieve food				
c. How can countries	security at a local scale: Case study of Goat Aid in				
ensure their food	Tanzania				
security?					
	The effectiveness of one past and one present				
	attempt to achieve food security at a national scale:				
	Case Study 1: Present Project - Southern Agricultural				
	Growth Corridor (SAGOT) of Tanzania.				
	Case study 2: Past Project - Tanzania-Canada Wheat Project				
	Explore the environmental, economic and social				
	sustainability of attempts to achieve food security, in				
	relation to:				
	ethical consumerism, such as fairly traded goods and				
	food waste				
d. How sustainable are					
these strategies?	food production, such as organic methods and intensity forming.				
	intensive farming				
	• technological developments, such as GM crops and				
	hydroponics				
	small scale 'bottom up' approaches, such as urban				
	gardens and permaculture.				

Human Fieldwork

The following areas of fieldwork will be assessed, through both learners' own experiences of fieldwork and unfamiliar contexts:

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Key Idea	Content	RED	AMBER	GREEN	Revised?
	Understanding of the kinds of question capable of being investigated through fieldwork and an understanding of the geographical enquiry processes appropriate to investigate these.				
Cambridge Fieldwork.	Understanding of the range of techniques and methods used in fieldwork, including observation and different kinds of measurement.				
Investigation title: How do human	Processing and presenting fieldwork data in various ways including maps, graphs and diagrams.				
interactions impact the environmental quality of Cambridge	Analysing and explaining data collected in the field using knowledge of relevant geographical case studies and theories.				
	Drawing evidenced conclusions and summaries from fieldwork transcripts and data.				
	Reflecting critically on fieldwork data, methods used, conclusions drawn and knowledge gained.				

Examination of Geographical Skills

You will also be examined on the following geographical skills across paper 1, 2 and 3 so ensure you have revised these. These were all taught within the units of study.

9. Geographical Skills

- 9.1 With respect to cartographic skills, learners should be able to:
 - Select and construct maps, using appropriate scales and annotations, to present information.
 - 2. Interpret cross sections and transects.
 - **3.** Use and understand coordinates, scale and distance.
 - **4.** Extract, interpret, analyse and evaluate information.
 - 5. Use and understand gradient, contour and spot height (on OS and other isoline maps).
 - **6.** Describe, interpret and analyse geo-spatial data presented in a GIS framework.

- 9.2 With respect to graphical skills, learners should be able to:
 - Select and construct appropriate graphs and charts, using appropriate scales and annotations to present information.
 - **2.** Effectively present and communicate data through graphs and charts.
 - Extract, interpret, analyse and evaluate information.

Maps to be studied:	Graphs and charts to be studied:	
Atlas maps	Bar graphs (horizontal, vertical and divided)	
OS maps (1:50 000 and 1:25 000 scales)	Histograms (with equal class interval)	
Base maps	Line graphs	
Choropleth maps Scatter graphs (including best fit line)		
Isoline maps Dispersion graphs		
Flow line maps Pie charts		
Desire-line maps	Climate graphs	
Sphere of influence maps	Proportional symbols	
Thematic maps	Pictograms	
Route maps	Cross-sections	
Sketch maps	Population pyramids	
	Radial graphs	
	Rose charts	

- **9.3** With respect to **numerical** and **statistical** skills, learners should be able to:
 - 1. Demonstrate an understanding of number, area and scale.
 - 2. Demonstrate an understanding of the quantitative relationships between units.
 - 3. Understand and correctly use proportion, ratio, magnitude and frequency.
 - **4.** Understand and correctly use appropriate measures of central tendency, spread and cumulative frequency including, median, mean, range, quartiles and inter-quartile range, mode and modal class.
 - 5. Calculate and understand percentages (increase and decrease) and percentiles.
 - **6.** Design fieldwork data collection sheets and collect data with an understanding of accuracy, sample size and procedures, control groups and reliability.
 - 7. Interpret tables of data.
 - 8. Describe relationships in bivariate data.
 - 9. Sketch trend lines through scatter plots.
 - 10. Draw estimated lines of best fit.
 - 11. Make predictions; interpolate and extrapolate trends from data.
 - 12. Be able to identify weaknesses in statistical presentations of data.
 - 13. Draw and justify conclusions from numerical and statistical data.
- **9.4** With respect to **formulating enquiry and argument**, learners should be able to:
 - Deconstruct, interpret, analyse and evaluate visual images including photographs, cartoons, pictures and diagrams.
 - Analyse written articles from a variety of sources for understanding, interpretation and recognition of bias.
 - **3.** Suggest improvements to, issues with or reasons for using maps , graphs, statistical techniques and visual sources, such as photographs and diagrams.