

Geography Specification B - Unit 1 - Dynamic Planet

What's changed?



EDEXCEL MODULAR GCSE GEOGRAPHY B (LAST ASSESSMENT IN 2013)					
SPECIFICATION AND ASSESSMENT AT A GLANCE					
Specification overview					
This unit has three sections. Section A is compulsory, and Sections B and C contain optional topics.					
Section A – Introduction to the Dynamic Planet – Compulsory topics: Restless Earth, Climate and Change, Battle for the Biosphere and Water World. (32 marks)					
Section B – Small-scale Dynamic Planet – Optional topics: complete one of either Coastal Change and Conflict or River Processes and Pressures. (9 marks)					
Section C – Large-scale Dynamic Planet – Optional topics: complete one of either Oceans on the Edge or Extreme Climates. (12 marks)					
Assessment overview					
1-hour tiered written examination • Total of 53 marks (up to 3 marks for SPaG) • Jan and June 2013 series					
Section	Topic		Detailed content	Page	
Section A: Introduction to the Dynamic Planet	Topic 1: Restless Earth	1.1 How and why do Earth's tectonic plates move?	a Earth's interior has a layered structure, with different composition and physical properties; the Earth's core generates heat and convection currents drives plate motion. b There are conservative, constructive and destructive plate boundaries, each with characteristic volcanic and earthquake hazards	11	
		1.2 What are the effects and management issues resulting from tectonic hazards?	a Volcanic and earthquake hazards affect people in different ways and at contrasting locations.	12	
			b Management of volcanic and earthquake hazards, at contrasting locations, ranging from shorter term relief to long-term planning, preparation and prediction.	12	
		Topic 2: Climate and Change	2.1 How and why has climate changed in the past?	a Climate has changed in the past through natural causes, on timescales ranging from millions to hundreds of years.	13
				b Natural climate change in the past has affected people and ecosystems.	13
			2.2 What challenges might our future climate present us with?	a The Earth's climate today appears to be changing as a result of human activity, and future climates are uncertain.	13
	b Future climates are likely to present major challenges, to the UK and especially to people in the developing world.			13	
	Topic 3: Battle for the Biosphere		3.1 What is the value of the biosphere?	a The distribution of global biomes reflects climate as well as other localised factors.	14
				b The biosphere acts as a 'life support system', providing a wide range of goods and services.	14
	3.2 How have humans affected the biosphere and how might it be conserved?	a The biosphere is being degraded by human actions.	14		
		b Management measures, at a variety of scales, are being used to conserve the biosphere and make human use of it more sustainable.	14		
	Topic 4: Water World	4.1 Why is water important to the health of the planet?	a The hydrological cycle regulates water supply and links the atmosphere, biosphere and lithosphere.	15	
b Changes to the hydrological cycle can affect both human and ecosystem health.			15		
4.2 How can water resources be sustainably managed?		a There are many threats to maintaining a healthy hydrological cycle.	15		
		b There is a range of strategies, at a variety of scales, designed to manage water resources more sustainably using different levels of technology.	15		
Section B: Small-scale Dynamic Planet		Topic 5: Coastal Change and Conflict	5.1 How are different coastlines produced by physical processes?	16	
			5.2 Why does conflict occur on the coast, and how can this be managed?	16	
Topic 6: River Processes and Pressures	6.1 How do river systems develop?	a River systems develop characteristic landforms and channel shapes along their long profile, from source to mouth.	17		
		b These characteristics result from processes of erosion, transport and deposition, with geology and slope processes also playing a role.	17		
	6.2 Why do rivers flood and how can flooding be managed?	a River flooding has natural causes, but flooding may be made worse by human activities, including those causing climate change.	17		
		b Flood management involves both traditional hard engineering and more modern, integrated and sustainable approaches.	17		
	Section C: Large-scale Dynamic Planet	Topic 7: Oceans on the Edge	7.1 How and why are some ecosystems threatened with destruction?	18	
			b Unsustainable use of marine ecosystems leads to the disruption of food webs and nutrient cycles and can lead to extinction	18	
7.2 How should ecosystems be managed sustainably?			18		
Topic 8: Extreme Climates		8.1 What are the challenges of extreme climates?	a Extreme climates are located in polar regions and hot arid areas; each has key physical characteristics.	19	
			b People adapt to the challenges of extreme climates in a variety of ways.	19	
		8.2 How can extreme environments be managed and protected from the threats they face?	19		

EDEXCEL LINEAR GCSE GEOGRAPHY B (FIRST ASSESSMENT IN 2014)					
SPECIFICATION AND ASSESSMENT AT A GLANCE					
Specification overview					
This unit has three sections. Section A is compulsory, and Sections B and C contain optional topics.					
Section A – Introduction to the Dynamic Planet – Compulsory topics: Restless Earth, Changing Climate, Battle for the Biosphere and Water World. (48 marks)					
Section B – Small-scale Dynamic Planet – Optional topics: complete one of either Coastal Change and Conflict or River Processes and Pressures. (15 marks)					
Section C – Large-scale Dynamic Planet – Optional topics: complete one of either Oceans on the Edge or Extreme Environments. (15 marks)					
Assessment overview					
1-hour 15-minute tiered written examination • Total of 78 marks (up to 6 marks for SPaG) • June series					
Section	Topic		Detailed content	Page	
Section A: Introduction to the Dynamic Planet	Topic 1: Restless Earth	1.1 How and why do the Earth's tectonic plates move?	a The Earth's interior has a layered structure, with different composition and physical properties; the Earth's core generates heat and convection currents drive plate motion. b There are conservative, constructive and destructive plate boundaries, each with characteristic volcanic and earthquake hazards.	11	
		1.2 What are the effects and management issues resulting from tectonic hazards?	a Volcanic and earthquake hazards affect people in different ways and at contrasting locations.	12	
			b Management of volcanic and earthquake hazards, at contrasting locations, ranging from shorter term relief to long-term planning, preparation and prediction.	12	
		Topic 2: Changing Climate	2.1 How and why has climate changed in the past?	a Climate has changed in the past through natural causes, on timescales ranging from hundreds to millions of years.	13
				b Natural climate change in the past has affected people and the environment.	13
			2.2 What challenges might our future climate present us with?	a The climate of the UK appears to be changing as a result of global changes caused by human activity	13
	b Future climates are uncertain but likely to present major economic and environmental challenges to the UK and, especially, to people in the developing world.			13	
	Topic 3: Battle for the Biosphere		3.1 What is the value of the biosphere?	a The distribution of global biomes reflects climate as well as other localised factors.	14
				b The biosphere acts as a 'life support system', and produces a wide range of goods.	14
	3.2 How have humans affected the biosphere and how might it be conserved?	a The biosphere is being degraded by human actions.	14		
		b Management measures, at a variety of scales, are being used to conserve the biosphere and make human use of it more sustainable.	14		
	Topic 4: Water World	4.1 Why is water important to the health of the planet?	a The hydrological cycle regulates water supply and links the atmosphere, biosphere and lithosphere.	15	
b Changes to the hydrological cycle can affect both human and eco-system health.			15		
4.2 How can water resources be managed sustainably?		a There are many threats to maintaining a healthy hydrological cycle.	15		
		b There is a range of strategies, at a variety of scales, designed to manage water resources more sustainably using different levels of technology.	15		
Section B: Small-scale Dynamic Planet		Topic 5: Coastal Change and Conflict	5.1 How are different coastlines produced by physical processes?	16	
			5.2 Why does conflict occur on the coast and how can this be managed?	16	
	Topic 6: River Processes and Pressures	6.1 How do river systems develop?	a River systems develop characteristic landforms and channel shapes along their long profile, from source to mouth.	17	
			b These characteristics result from processes of erosion, transport and deposition, with geology and slope processes also playing a role.	17	
	6.2 Why do rivers flood and how can flooding be managed?	a River flooding has natural causes but flooding may be made worse by human activities, including those causing climate change.	17		
		b Flood management involves both traditional hard engineering and more modern, integrated and sustainable approaches.	17		
Section C: Large-scale Dynamic Planet	Topic 7: Oceans on the Edge	7.1 How and why are some eco-systems threatened with destruction?	18		
		b Unsustainable use of marine eco-systems leads to the disruption of food webs and nutrient cycles and can lead to extinction	18		
		7.2 How should eco-systems be managed sustainably?	18		
	Topic 8: Extreme Environments	8.1 What are the challenges of extreme climates?	a Extreme climates are located in polar regions and hot arid areas; each one has key physical characteristics and they are fragile environments.	19	
			b People adapt to the challenges of extreme environments in a variety of ways.	19	
		8.2 How can extreme environments be managed and protected from the threats they face?	19		