Geography Department

Year 10

Topic: The Living World

Learning Journey

Prior learning: This is the second topic for paper 1 of the GCSE geography course. Students will have some understanding of ecosystems and how they function from their KS3 studies, notably their unit on Africa in year 8. This unit introduced the idea of ecosystems at a macro scale (biomes) and considered how nutrient cycles, food chains and food webs help to shape the way they operate. There is a particular focus on savanna, deserts and Jungles which give students a solid foundation for the GCSE case studies on the Malaysian rainforest and the Thar Desert. The previous unit on Natural Hazards also provided an introduction to atmospheric circulation which is a key idea in understanding the location of different ecosystems around the World.

	Endpoint					
Main learning steps	Students are introduced to what ecosystems are, the scales at which they operate and how biotic and abiotic components are interdependent through concepts such as food webs and the nutrient cycle. These ideas are then applied to examples of different	Students develop their understanding of a variety of different human and physical factors which can affect an ecosystem. These ideas are then explored further by examining how the reintroduction of Wolves to Yellowstone has affected the area.	Students develop their knowledge of the key characteristics of different Biomes around the World, exploring the location, climatic conditions and associated flora and fauna. They also start to consider the key factors which determine the climatic conditions of biomes i.e. latitude, altitude,	Students spend several lessons looking at rainforests and how they operate. They will consider their characteristics, biotic adaptations, value, threats to existence and how they can be managed more sustainably. This is then applied to a case study on the	Students spend several lessons looking at deserts and how they operate. They will consider their characteristics, biotic adaptations, the opportunities and challenges these environments present and finally the threat of desertification and how this can be managed.	Students will be able to demonstrate the extent to which they have understood how ecosystems operate and the ways in which the components within a given ecosystem are interdependent. They will also be able to demonstrate

	ecosystems i.e. a	distance from	Malaysian	This is then applied	where they are in
	pond and Epping	ocean, ocean	rainforest.	to a case study on	terms of exam
	Forest.	currents etc.		the Thar Desert.	technique by
					answering GCSE
					style questions.
Assessment				Prior to	End of unit test –
				completing their	30 minutes
				end of unit test,	completed under
				students will	formal exam
				complete a 9 mark	conditions on
				essay assessing the	section B of paper
				extent to which	1. This will be
				the Thar desert	marked by teacher
				presents both	and then reviewed
				economic	in subsequent
				opportunities and	lesson with an
				challenges. They	opportunity to
				will supported in	improve on
				completing this	answers with
				through the use of	purple pen.
				a structure strip	
				and then their	
				answers will be	
				self assessed with	
				the support of a	
				modelled answer	
				written by staff.	

Where will we use these ideas again:

The ideas of ecology which are developed in this unit will be revisted in year 11, particularly through the unit of "The Challenge of resource management." This will require students to consider the issues we face as our supplies of water, food and energy are placed under increasing strain and how trying to meet the demand of these resources can put additional pressure on different ecosystems.