

	Brief Description	Equipment Includes	Centres		Curriculum Information - Edexcel
			PGL Little Canada	PGL Osmington Bay	
Human Geography					
Retail Settlements Today	Students investigate the function and layout of a retail settlement using various geographical techniques. They also investigate the location of services in relation to each other. The history of the area is discussed to demonstrate the changing function of the town over time.	Activity sheets, digital cameras, questionnaires, land use maps			Edexcel GCSE Geography B (2016 Specification) Topic 6: Investigate how and why quality of life varies within urban areas.
Rural Settlements	Students investigate the changing function of a village over time and the issues associated with rural settlements. Geographical techniques are used to formulate an image of how an area has changed over time. Evidence of the impact of other settlements and the rural employment levels and type are discussed.	Activity sheets, digital cameras, land use maps			Edexcel GCSE Geography B (2016 Specification) Unit 5.7 b Topic 5: The UK's evolving human landscape. Unit 5.8 b Topic 5: The UK's evolving human landscape . Topic 6: Investigate how and why quality of life varies within urban areas.
Physical Geography					
Coastal Management	Coastal erosion and the conflicts which arise as a result of it are examined along with the options available to manage it. Different types of coastal defences and management systems are investigated and students discuss future coastal management strategies.	Activity sheets, digital camera			Edexcel GCSE Geography B (2016 Specification). Topic 4: The UK's evolving physical landscapes. 4.4 Distinctive coastal landscapes are modified by human activity interacting with physical processes. 4.5 The interaction of human and physical processes present challenges along coastlines and there are a variety of management options. Topic 6: Investigating coastal change and conflict.
Coastal Processes and Features	With reference to nearby examples, students discuss the formation of coastal features and how they have evolved. Features include stumps, stacks, caves and wave-cut platforms. A beach profile can be constructed if required.	Activity sheets, digital camera, Pocket PC, profiling kit			Edexcel GCSE Geography B (2016 Specification). Topic 4: The UK's Evolving Physical Landscape. 4.3 Distinctive coastal landscapes are influenced by geology interacting with physical processes. Topic 6: Investigating coastal change and conflict.
Rivers and Fluvial Systems	The form and functions of rivers are studied in this river investigation, including meanders, floodplains and smaller formations such as point bars and river cliffs. A number of measurements such as width, depth, velocity and sediment size can be collected at a variety of sample sites.	Activity sheets, Pocket PC, digital camera, clinometer, channel profile kit, flow meters, callipers, sediment roundness chart, ranging poles			Edexcel GCSE Geography B (2016 Specification). Topic 4: The UK's Evolving Physical Landscape. 4.6 Distinctive river landscapes have different characteristics formed by interacting physical processes. 4.7 River landscapes are influenced by human activity interacting with physical processes. Topic 6: Investigating river processes and pressures.

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Geology					
Geology, Rocks and Fossils	Students examine various rocks formed by different environmental conditions, hunt for fossils and learn about the tectonic events that have shaped the land.	Activity sheets, sample fossils, fossil and rock guides, digital camera			Edexcel GCSE Geography B (2016 Specification), Topic 4: The UK's Evolving Physical Landscape. 4.1 Geology and past processes have influenced the physical landscape of the UK. 4.2. A number of physical and human processes work together to create distinct UK landscapes. 4.3. Distinctive coastal landscapes are influenced by geology interacting with physical processes
People, Rocks and Landscapes	Visiting a number of igneous rock localities students will see how geology as a natural resource can have a massive impact on the environment and character of an area. Geological features can generate income but can also produce areas of natural beauty and scientific importance, thereby introducing conflict over a variety of issues.	Activity sheets, rock guides, digital camera			Edexcel GCSE Geography B (2016 Specification), Topic 4: The UK's Evolving Physical Landscape. 4.1 Geology and past processes have influenced the physical landscape of the UK. 4.2. A number of physical and human processes work together to create distinct UK landscapes. 4.3. Distinctive coastal landscapes are influenced by geology interacting with physical processes.

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Biology					
Comparative Ecological Investigation	Undertaking a comparative investigation of different habitats, students examine how plant communities are affected by biotic and abiotic factors. Students also identify plants and their adaptations.	Activity sheets, digital camera, infiltration kit, soil thermometer, moisture meter, pH kit, profiling kit, plant ID guides, Pocket ID books, anemometer			Edexcel IGCSE in Science (Double Award): Section 4 Ecology and the environment: 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9. Edexcel IGCSE in Biology: Section 4 Ecology and the environment: 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.9, 4.10. Edexcel GCSE (2015 DRAFT): Topic 6 - Plant structures and their functions: 6.1/6.3/6.4/6.12/6.14B Topic 9 - Ecosystems and material cycles.
Marine Zonation	At a chosen local beach students explore marine life. Starting in the splash zone and working through the upper and lower intertidal zones, students are encouraged to study and collect as many organisms as possible and also discuss their adaptations and the stress factors affecting these numbers, zone by zone.	Activity sheets, digital camera, Pocket PC, profiling equipment, quadrats, Identification sheets and books, trays, bug pots			Edexcel IGCSE in Science (Double Award): Section 4 Ecology and the environment: 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8. Edexcel IGCSE in Biology: Section 4 Ecology and the environment: 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.15. Edexcel GCSE (2015 DRAFT): Topic 6 - Plant structures and their functions: 6.1, 6.2, 6.3, 6.4, 6.14.B Topic 9 - Ecosystems and material cycles.
Stream Ecology	Changes in the course of a river, from source to mouth, are investigated with a focus on the change in communities of invertebrates. Pollution, land use and management are examined as factors for change.	Activity sheets, Pocket PC, digital camera, flow meters, sediment roundness chart, pH meters, sweep nets, tray, bug pots, identification books and sheets.		✗	Edexcel IGCSE in Science (Double Award): Section 4 Ecology and the environment: 4.1, 4.4, 4.5, 4.6, 4.7, 4.13. Edexcel IGCSE in Biology: Section 4 Ecology and the environment: 4.1, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.15, 4.16. Edexcel GCSE (2015 DRAFT): Topic 9 - Ecosystems and material cycles.
Woodland Ecology	Students make comparative studies of coniferous and deciduous or mixed woodland. The role of woodland in the nitrogen and carbon cycles is discussed along with expected changes in diversity within physical parameters.	Activity sheets, digital camera, Pocket PC, infiltration kit, pH kit, soil auger, soil thermometer, moisture meter, profiling kit, 2 quadrats, plant ID guides, Pocket ID books, anemometer	✗		Edexcel IGCSE in Science (Double Award): Section 4 Ecology and the environment: 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.14. Edexcel IGCSE in Biology: Section 4 Ecology and the environment: 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.17. Edexcel GCSE (2015 DRAFT): Topic 6 - Plant structures and their functions: 6.1, 6.3, 6.4, 6.11B, 6.12, 6.14B Topic 9 - Ecosystems and material cycles.



Curriculum Links

GCSE Field Studies

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Environmental Science					
Freshwater Pollution	Biotic and abiotic factors are used in analysing pollution levels in a freshwater system. Students focus on changes in invertebrate communities across multiple sites and examine the reasons for the changes, including land use and management.	Activity sheets, digital camera, Pocket PC, bug pots, pipette, flexible net, identification guides and sheets, BMWP index, pH test kits, nitrate test kits			Edexcel GCSE Geography B Specification: Unit 1 Dynamic Planet, Section A Introduction to the Dynamic Planet, Topic 4 Water World, 4.1 a and b, 4.2 a and b. Edexcel IGCSE in Science (Double Award): Section 4 Ecology and the environment: 4.1, 4.4, 4.5, 4.6, 4.7, 4.13. Edexcel IGCSE in Biology: Section 4 Ecology and the environment: 4.1, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.15, 4.16. Edexcel GCSE (2015 DRAFT): Topic 9 - Ecosystems and material cycles.