



General Information for the case study:

WRL reference	M04 D04	
Module	M04 Ecosystems – Tropical Forests	
Data set	D04 Abundance of bat feeding guilds in the Iwokrama Forest, Guyana	
Research questions	<ol style="list-style-type: none"> 1. Which feeding guilds are represented by the greatest numbers of bats in the Iwokrama Forest? 2. How does the abundance of bat feeding guilds vary between sites across the Iwokrama Forest? 	
Keywords	Adaptation; Behaviour; Biodiversity; Competition; Data handling; Ecosystem; Field techniques; Human impact; niche; Rainforest; Sampling; variation.	
Potential Biology Curriculum links (UK)	AQA	3.2.1; 3.2.11; 3.4.1; 3.9
	edexcel	How Science Works; Unit 2,3,4; App.10;
	IB	Topic 1; Topic 5; Option G; G.1.8
	Camb. Pre-U	5.1; 5.2;
	OCR	2.3.1; 2.3.4; 3.3; 5.3.1
	WJEC	5.8; BY6;
	SQA	Case studies; FH2J (2, 3); HOAL (1); HOAM
	CCEA	2.2; 2.3; 4.4; Maths and Stats knowledge
Summary	<p>Iwokrama Forest is located in Guyana and composed of lowland rainforest not far from the equator. The forest has a very high biodiversity with one of the greatest number of bat species recorded in South American rainforest ecosystems.</p> <p>This data set looks at how the varying ‘feeding guilds’ of bats are distributed within the research area and relates this to local habitat type. It also considers the role that bats play in helping to maintain a healthy ecosystem.</p> <p>The raw data is sorted using Excel and then transferred into a summary table and graphs drawn to support the TWO research questions. It is a relatively simple task but a good introduction into data handling and sorting. It is also a good introduction into the biology and importance of bats in the rainforest.</p> <p>Difficulty: 5/10</p>	

