Our Lady Queen of Peace
Catholic Engineering College

Curriculum Overview

Year 8 Computing (2024-25)

		Knowledge & Understanding			Subject Specific Literacy Development	Cultural Capital / Enrichment Opportunities
	Composites (Bigger Picture)	Components (Key Concepts)		Recall & Retrieval Practice Focus	Key Vocabulary	
Unit 1 **September to October**	Scratch Programming Game Design	o What makes a good game? o Stages of game design o Creating backgrounds in Scratch o Use of If, then, else statements o Coding movement and reactions in Scratch o Introduction to variables		Ongoing evaluation of If, then, else statements to understand small programmes	Scratch, Variable, Code, Programme, Logic, Sequence, Selection, Iteration	
Unit 2 **October to December**	Staying Safe Online (eSafety)	• What is cyberbullying and how does it impact others? • What is phishing and how does it work? • What is sexting and how can I protect myself? • What is grooming and how can it impact me?		Writing If, then, else statements	Phishing, Sexting, Grooming, Safety,	
Unit 3 **January to March**	Spreadsheet Modelling	• Purpose of spreadsheets • Key features (Cells, Rows, Columns) • Use of formulae (SUM, IF, AND, OR, AVERAGE, MIN, MAX) • Conditional Formatting (If, then, else)			Formulae, Cell, Row, Column, Conditional	

	Knowledge & Understanding			Subject Specific Literacy Development	Cultural Capital / Enrichment Opportunities
	Composites (Bigger Picture)	Components (Key Concepts)	Recall & Retrieval Practice Focus	Key Vocabulary	
Unit 4 March to July	The Binary System & Data Representation	• What is the Binary System? • Converting between binary and denary numbers • What is the ASCII code? • How are images stored using binary? • How is sound stored using binary? • Use of audacity for sound storage • Types of file formats	Repeated practice of binary/denary conversions	Byte, Bit, Binary, Denary, Base, Compression	