

Holy Family Catholic School Curriculum Overview Year 9 – Computing



	Curriculum Content	Suggested Reading or Extension Activities
Half Term 1 (Sept-Oct)	Spreadsheets / Data Science: In this unit, learners will be introduced to data science, and by the end of the unit they will be empowered by knowing how to use data to investigate problems and make changes to the world around them. Learners will be exposed to both global and local data sets and gain an understanding of how visualising data can help with the process of identifying patterns and trends.	• https://edpuzzle.com • https://quizziz.com • https://bbc.co.uk/bitesize • https://senecalearning.com
Half Term 2 (Nov-Dec)	Developing for the web: In this unit, learners will explore the technologies that make up the internet and World Wide Web. Starting with an exploration of the building blocks of the World Wide Web, HTML, and CSS, learners will investigate how websites are catalogued and organised for effective retrieval using search engines. By the end of the unit, learners will have a functioning website.	• https://edpuzzle.com • https://quizziz.com • https://bbc.co.uk/bitesize • https://senecalearning.com
Half Term 3 (Jan-Feb)	Artificial Intelligence and Machine Learning : In this unit, we'll discover what is AI, and what does machine learning actually involve? From self-driving cars to determining someone's age, artificial intelligence (AI) systems trained with machine learning (ML) are being used more and more.	• Nearpod.com • https://quizziz.com • https://bbc.co.uk/bitesize •
Half Term 4 (Feb-Mar)	Data Representation: Bitmap Images In this unit, learners will focus on making digital media such as images and sounds, and discover how images are stored as binary code. You will draw on familiar examples of composing images out of individual elements, mix elementary colours to produce new ones, The unit has a significant practical aspect; you will use design software (Photoshop) to manipulate images. This will help you to understand how the underlying principles of digital representations are applied in real settings.	• https://edpuzzle.com • https://quizziz.com • https://bbc.co.uk/bitesize • https://senecalearning.com
Half Term 5 (Apr-May)	Media: Vector Graphics Vector graphics can be used to design anything from logos and icons to posters, board games, and complex illustrations. Through this unit, students will be able to better understand the processes involved in creating such graphics and will be provided with the knowledge and tools to create their own.	• https://edpuzzle.com • https://quizziz.com • https://bbc.co.uk/bitesize • https://senecalearning.com
Half Term 6 (Jun-Jul)	Programming Fundamentals: Python Python is one of the most popular programming languages in the world. This series of courses take learners from absolute beginner to understanding	turinglab.com/

	core concepts such as sequence, selection and iteration.	
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Examples of Home Learning Tasks	• https://edpuzzle.com • https://quizziz.com • https://bbc.co.uk/bitesize • https://senecalearning.com
Assessment Tasks, Methods & Frequency	Assessment tasks/activities are carried out throughout each lesson to consolidate learning outcomes via Quizziz, Google Forms or Kahoot!.
Equipment that Students Need	None needed. All provided within the department.

Parent / Carers can help their child by:	Signing up to Google Guardian and checking their Google Guardian account and reminding their child with any upcoming homework deadlines.
Useful Websites	• https://edpuzzle.com • https://quizziz.com • https://bbc.co.uk/bitesize • https://senecalearning.com
Extra-Curricular Activities & Career Opportunities	Offering Coding club to Y9's from September 2023

Who Can I Contact?	Head of Computing & IT	Mrs Belgrave
	Teachers of Year 9 Computing	Mrs Belgrave & Mr Heskey