

Holmer Green Senior School

# Information Technology

2025-26



# Curriculum Intent

Work Hard, Be Kind, Have Passion

---

We aim to equip students with a comprehensive understanding of Information Technology and its applications in the modern world. Our IT curriculum develops students' practical skills in using various software tools and technologies, while also fostering their understanding of theoretical concepts. We encourage students to become adept problem-solvers, capable of designing, creating, and evaluating IT solutions for real-world scenarios.

Our goal is to prepare students for the rapidly evolving digital landscape, emphasising the importance of data management, cyber security, and ethical considerations in IT. Through a blend of practical coursework and theoretical study, we develop students' ability to analyse, design, and implement IT systems that meet user requirements.

We strive to cultivate digitally literate individuals who can adapt to emerging technologies and contribute meaningfully to various industries. Our curriculum provides a strong foundation for further education in IT-related fields and equips students with valuable skills for their future careers in the digital economy.

The bottom of the page features decorative wavy lines in shades of blue and gold, creating a modern and professional aesthetic.

# HGSS Curriculum Map

## Year 10 IT



Exam Board: OCR			Careers: IT technician, digital content creator, data analyst		Co-Curricular: IT Club, Digital Skills workshops		Sequencing: Builds foundation for OCR Cambridge Nationals in IT	
	Autumn 1	Autumn 2	Spring 1	AP1	Spring 2	Summer 1	Summer 2	AP2
Content	Design tools; Human Computer Interface in everyday life	Planning, designing and creating spreadsheet solutions	Data testing and HCI conversions; Spreadsheet NEA assessment	In-class assessment to include a mix of long and short answer questions and practical tasks	Data collection and storage; Spreadsheet NEA assessment	Application of testing; Cyber security and legislation	Digital communications; Internet of Everything	End of year assessment covering R050 and R060 (NEA progress). Combination of exam-style questions and practical project evaluation.
Skills:	Identifying design tool types; Analysing HCI applications	Spreadsheet design; Data handling and manipulation	Information analysis; User interface navigation design		Practical application of IT skills; Data management	Testing methodologies; Threat identification	Communication channel analysis; IoE application evaluation	

# HGSS Curriculum Map

## Year 11 IT



Exam Board: OCR			Careers: UI/UX designer, IT support specialist, digital marketer		Co-Curricular: Tech competitions, Industry visits		Sequencing: Builds on year 10 work	
	Autumn 1	Autumn 2	Spring 1	AP1	Spring 2	Summer 1	Summer 2	AP2
<b>Content</b>	Human Computer Interface in everyday life; Application of testing	Designing and creating an AR model prototype; Cyber security and legislation	Digital communications; Internet of Everything; R070 AR NEA Assessment	Mock exam for R050 covering all topics. NEA assessment for R070.	R070 AR NEA Assessment	R050 Exam Revision	GCSE Exams	Final preparations for R050 exam. Complete submission and internal moderation of R070 NEA project.
<b>Skills:</b>	Analysing HCI applications; Testing methodologies;	Threat identification	Communication channel analysis; IoE application evaluation		AR model development; User interaction implementation	Concept application; Exam techniques		

# HGSS Curriculum Map

## Year 12 IT



Exam Board: Edexcel		Network administrator, IT project manager, systems analyst		Co-Curricular: Industry work experience		Sequencing: Builds on GCSE Computer Science/Cambridge Nationals; prepares for advanced IT concepts	
Autumn 1	Autumn 2	Spring 1	AP1	Spring 2	Summer 1	Summer 2	AP2
Fundamentals of IT: Hardware and software	Business IT systems; Employability skills	Global information management	In-class assessments on Unit 1 and Unit 2. Mix of short and long response exam-style questions.	Legal and regulatory frameworks	Exam revision; Social media and digital marketing	Digital marketing campaign development	Mock exam covering Units 1 and 2. Initial assessment of Unit 13 NEA.
System component analysis; Software categorisation	Business system evaluation; Professional communication	Data classification; Information security principles		Compliance analysis; Information flow mapping	Exam preparation; Digital campaign planning	Content creation; Social media strategy	

# HGSS Curriculum Map

## Year 13 IT



<b>Exam Board: OCR</b>		<b>Careers: IT consultant, digital transformation specialist, AR/VR developer</b>			<b>Co-Curricular: Tech start-up simulation, Advanced IT projects</b>		<b>Sequencing: Completes advanced IT qualification; prepares for higher education/industry</b>	
	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>AP1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>	<b>AP2</b>
<b>Content</b>	Fundamentals of IT: Hardware and software	Business IT systems; Employability skills	Systems analysis and design	Mock exam for Unit 1. Progress review of Unit 11 NEA.	Virtual and Augmented Reality	NEA finalisation and revision	Final assessments and future applications	Submission and internal moderation of Units 11 and 5 NEA.
<b>Skills:</b>	System component analysis; Software categorisation	Business system evaluation; Professional communication	Requirements gathering; Investigative techniques		VR/AR application analysis; Resource design and creation	Project management; Synoptic review		