ERNULF ACADEMY
Astrea Academy Trust

Year 8 ICT	Subject Intent	We want our students to be ICT literate, which will open a world of opportunities to them. Our ICT curriculum aims to inspire students to be curious about contemporary computing topics, which are relevant to today's ever-changing world. Our curriculum improves pupil's communication skills, literacy and allows then to express themselves in a way which both motivates and embeds learning. Students will be confident in a wide range of skills, from how to use word processing software, to do artificial intelligence bots, who can think like a human and talk like a human actually have human rights.
	KS3 Subject Narrative	Our KS3 curriculum is topic based. Each term will cover a new topic, which will be supported with an end of topic assessment and feedback. There will also be a mid-year and end of year assessment in ICT. Students will be supported with relevant and up to date materials and have the opportunity to add their own knowledge and flair to each lesson.
	KS4 Subject Narrative	We want our ICT students to be ready for the real world. The KS4 course is exciting and challenging and will introduce you to the digital sector. You will gain important knowledge, understanding and skills that are the foundations for working in this sector. You will learn about many of the skills that are used by professionals, such as project planning, designing, and creating user interfaces and keeping your data secure. You will learn about virtual workplaces, cyber security, and legal and ethical issues.
	Routine Assessment Strategies	End of topic assessments, supported with SAR (Strength Action Response) Regular in class tasks and questioning. Students also have regular opportunities to present their work.

Year 8 ICT	**WHY THIS, WHY NOW?**	Autumn Term – Impacts on society.	Spring Term – Machines and me.	Summer Term – Who works with data.
	Enquiry questions	• Understand how instructions are stored and executed within a computer system. • Understand ways to use technology safely.	• Create, reuse, revise and repurpose digital artefacts for given audience, with attention to trustworthiness, design and usability.	• What are key algorithms? • What is logical reasoning? • Can you undertake a creative project?
	Key Subject Knowledge	• How does technology impact us? • The law, data protection and copyright. • Freedom of information and computer misuse. • Privacy and surveillance.	• Bits, bytes, and binary. • Machine learning. • Artificial Intelligence. • Internet of Things. • Smarter world.	• Who works with data? • Be a product manager. • Be a data scientist. • Be a UX designer. • Be a data visualisation designer. • My dream job.
	Subject Competencies	• Environmental impact. • Ethical impact. • Privacy impact. • Legal impact. • Cultural impact.	• Data privacy. • Binary calculations. • Face recognition. • Fraud prevention. • Decision trees.	• Understanding of job descriptions • Understanding of person specifications. • Reliable sources of data. • Causes and variables.
	Summative Assessments (high stakes assessments which test cumulative knowledge)	• SAR task covering key competencies.	• Mid-year assessment covering year 7 and 8 content.	• EOY assessment covering year 7 and 8 content.
	How does this pave the way for future study?	• Students will be able to appreciate how technology can impact society in both a positive and negative manner.	• Students will be able to apply logical reasoning to appreciate the benefits and drawbacks of A.I.	These topics are in the programme of study.