

Gentle introduction to both theory and programming.	When programming there are legal responsibilities which are addressed at the same time as programming techniques are developed. Data Structures used in programming are introduced.	The wider impact of IT systems are considered and more complex data structures that could be used in solving more challenging problems	Starting to build up to the knowledge required for using OOP in the NEA. This allows us to also look at how OOP is used in implementing some data structures.	Preparation for the NEA project - Understanding how to store persistent data and develop coding skills to link together theory and practical programming techniques.	Students should be more aware of their coding ability, project requirements and choose a project of interest to them that will give them the opportunity to produce a challenging yet feasible project.
Home – Learning: Related to topic covered. Programming.	Home – Learning: Related to topic covered. Programming.	Home – Learning: Related to topic covered. Programming.	Home – Learning: Related to topic covered. Programming.	Home – Learning: Related to topic covered. Programming.	Home – Learning: Related to topic covered. Programming.
Reading / High Quality Text: Technical language using manuals. Tech news Articles.	Reading / High Quality Text: Technical language using manuals. Tech news Articles.	Reading / High Quality Text: Technical language using manuals. Tech news Articles.	Reading / High Quality Text: Technical language using manuals. Tech news Articles.	Reading / High Quality Text: Technical language using manuals. Tech news Articles.	Reading / High Quality Text: Technical language using manuals. Tech news Articles.
Numeracy: Storage calculations, coding.	Numeracy: Coding calculations	Numeracy: Equations in coding	Numeracy: Mental maths – hashing techniques.	Numeracy: Equations in coding.	Numeracy: Coding calculations

Enrichment / opportunities to develop cultural capital (including careers, WRL and SMSC):

Encourage students to mentor non coders, take advantage of online webinars and tutorials. Consider taking a MOOC to help with UCAS statements.