Landau Learner Curriculum Overview

Subject: Computer Science Director of Learning: IA Year: 11

Equipment needed for sessions:

fortnight. These sessions are split between 2 rriculum, Curriculum Intent and Prior Relate Term 3: • Ethical and Lega Computer Sciene ent • System Architec • Programming Te • Producing Robus 7 T1, T3, Y8 utational Programmin Y9 T1, 2, 3, 4 Y10 T1. Comp	Term 4: gal Implications of ence Computational Thinking Log ecture System Security Techniques Translators & Facilities of La	
ent Term 3: Ethical and Lega Computer Science System Architece Programming Te Producing Robus 7 T1, T3, Y8 Prior learning: Programmin	gal Implications of ence Computational Thinking Log ecture System Security Techniques Translators & Facilities of La	gic
Ethical and Lega Computer Science ent System Architece Programming Te Producing Robust 7 T1, T3, Y8 Prior learning: Programmin	ence	gic
computer Scient ent System Architec Programming Te Producing Robus 7 T1, T3, Y8 Prior learning: Programmin	ence • Computational Thinking Log ecture • System Security Techniques • Translators & Facilities of La	gic
	nputational thinking Y9 T1, 2, 3, 4 Y10 T1. Computational th	ninking 10, Year 11.
to program and game deve gital literacy et of a their digital literacy and sta y, this allows mind-set of a computer scie	National Curriculum: develop their capability, creativity and knowledge in computer science, digital and information technology develop and apply their analytic, probles solving, design, and computational thinking with the skills understand how changes in technology safety, including new ways to protect to online privacy and identity, and how to a range of concerns Curriculum Intent: This enables students develop their programming understanding and application velopment process lustry. This develops tarts them on the cientist. Additionally, estand at greater works as a whole National Curriculum: develop their capability, creativity and knowledge in computer science, digital and information technology develop and apply their analytic, proble solving, design, and computational thin skills understand how changes in technology safety, including new ways to protect to online privacy and identity, and how to a range of concerns Curriculum Intent: This enables students develop their programming understanding and application to program and game development process that would be used in industry. This develop their digital literacy and starts them on mind-set of a computer scientist. Additionally, stand at greater works as a whole	technology develop and apply their analytic, problem-solving, design, and computational thinking skills understand how changes in technology affect safety, including new ways to protect their online privacy and identity, and how to report a range of concerns Curriculum Intent: This enables students to develop a holistic application of how computing impacts on their wider life. In the largest growing sector computing is applied to a number of now ethical and moral dilemmas in the real world. This enables students to develop a breadth of understanding of the digital world and how this contributed to a digital society.
1	Id be used in gital literacy that would be used in indict of a their digital literacy and st mind-set of a computer so depth how the computer depth how the computer	to program and game development process that would be used in industry. This develops their digital literacy and starts them on the mind-set of a computer scientist. Additionally, this allows them to understand at greater that would be used in industry. This develops their digital literacy and starts them on mind-set of a computer scientist. Additionally, this allows them to understand at greater depth how the computer works as a w

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 Cambridge Elevate Textbook (Provided by College) Computer Science Exercise book (IA/SDC) Computer and internet access (provided by College) Lesson resources (Digital and physical provided by the learning tutor) 	 Encourage your student to engage with their homework and complete it on time and to a high standard, asking them to show you the finished work. Take an interest in what you child is learning and talk to them about Computing in the real world Encourage them to watch television shows, documentaries and films that include computer science and developing technology.
How will learning be assessed and progress measured?	Extension and enrichment activities:
End of Topic assessment	Robotics and Coding Club (Thursday with IA)
Marking of written and practical work is carried out on a regular basis in line with the College policy	The National Museum of Computing/Bletchley Park/ Manchester's Museum of Science & industry
End of year summative assessment.	At-Bristol Science Centre / National Space Centre

What can you do to support your child?

Regular peer and self-marking.	 The Science Museum / National Media Museum/ Jodrell Bank Leicester Retro Computer Museum
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