



ICT & Business Curriculum Booklet

2019-2020

ICT & Business Teaching Staff

Ms P Erol – Head of Faculty (Maternity Leave)

Ms T Ansah – Head of ICT (Maternity cover)

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Miss C Jawahal

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Bishop Stopford's School Curriculum Overview

Year 7 – Computer Science

	Curriculum Content	Skill Content
Half Term 1	Autumn: First half term: E-safety	The aims of computing also reflect the distinction between the three strands. <ul style="list-style-type: none"> • understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation • can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems • can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems • are responsible, competent, confident and creative users of information and communication technology.
Half Term 2	Second half term: Microbit pocket-sized computer 70 times smaller and 18 times faster than the original BBC Micro computers used in schools. It has 25 red LED lights that can flash messages and be used to create games.	
Half Term 3	Spring: Binary and Kodu This unit aims to teach students the fundamentals of games programming using Kodu, which is a visual game development environment. Using Kodu students will understand how to build a world and program characters and objects before moving on to designing their own games.	
Half Term 4		
Half Term 5	Summer: Pivot Stick figure Animation – CS/IT This unit introduces students to animations. Pivot Stick figure Animator is unique software, that allows students to create stick figure animations easily and without any artistic skills. Students will understand how to create figures and add frames to the timeline.	
Half Term 6		
How is Computing taught	Students will be involved in covering core knowledge that will ensure them to prepare for computer science in ks4. They will be using basic programming techniques as well as building mini projects to gain the necessary knowledge.	

Examples of Home Learning Tasks	Students will be given homework that they can access from google classroom. Students will be given research tasks as well as further development of topics they have covered in lessons. Students will have a Coursebook for every unit to complete for both classwork and homework. These will be printed and presented all pupils at the beginning of each unit and they will be marked within the marking cycle.
Assessment Tasks, Methods & Frequency	Assessment This will be undertaken in 3 ways: <ul style="list-style-type: none"> • Plenary in each lesson – where students will complete tasks from the coursebook • Half Term assessment of skills by the student based on their unit • Termly assessment of skills by the teacher (In addition to formal school reporting)
Equipment That Students Need	All equipment will be provided in school. Students will have folders to store work and a coursebook.
Parents / Carers can help their child by:	Ensuring any homework set is complete. The home learning set will be based on research that will help for the following lesson; therefore, parent support is greatly appreciated.
Useful Websites	YouTube for inspiration Google for research Google classroom to access resources from home When students are given homework, they will also be given details of where and how to access the information needed.
Extra-curricular Opportunities	TBC

Who do I contact	Ms. T Ansah – Head of ICT (Maternity Cover)	tansah@bishopstopfords.enfield.sch.uk
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Bishop Stopford's School Curriculum Overview

Year 8 – Computer Science

	Curriculum Content	Skill Content
Half Term 1	<i>Programming Basics Sketchpatch</i>	The aims of computing also reflect the distinction between the three strands. <ul style="list-style-type: none"> • understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation • can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems • can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems • are responsible, competent, confident and creative users of information and communication technology.
Half Term 2	<i>Students will complete a number of activities to develop their problem-solving skills. They will plan and develop a solution to a problem using programming software such as RoboMind. Introduction to programming with Python</i>	
Half Term 3	HTML In this unit you are going to put together a chart band and create a website for them so their fans can keep up with what they are doing! The website will give the band's fans lots of interesting facts about the band, and include photos, gig dates and lots of other band related information.	
Half Term 4		
Half Term 5	Spreadsheets-	
Half Term 6	Use of spreadsheets and databases to search for information. Designing and creating a data capture form. Entering data into data structure.	

Examples of Home Learning Tasks	Students will be given homework that they can access from google classroom. Students will be given research tasks as well as further development of topics they have covered in lessons. Students will have a Coursebook for every unit to complete for both classwork and homework. These will be printed and presented all pupils at the beginning of each unit and they will be marked within the marking cycle.
Assessment Tasks, Methods & Frequency	Assessment This will be undertaken in 3 ways: <ul style="list-style-type: none"> • Plenary in each lesson – where students will complete tasks from the coursebook • Half Term assessment of skills by the student based on their unit • Termly assessment of skills by the teacher (In addition to formal school reporting)
Equipment That Students Need	All equipment will be provided in school. Students will have folders to store work.

Parents / Carers can help their child by:	Ensuring any homework set is complete. The home learning set will be based on research that will help for the following lesson; therefore, parent support is greatly appreciated.
Useful Websites	YouTube for inspiration Google for research Google classroom to access resources from home When students are given homework, they will also be given details of where and how to access the information needed.
Extra-curricular Opportunities	TBC

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Bishop Stopford's School Curriculum Overview

Year 9 – Computer Science

	Curriculum Content	Skill Content
Half Term 1	Python- Introduction to Python and programming - Python IDLE and programming Problem solving: ways of describing problems (algorithms, written description, flowchart, pseudo-code) Operators: arithmetic operators, order of precedence and parenthesis Develop code: error messages, debugging, comment statements, writing, saving and retrieving program files Data types, variables and input	<p>The aims of computing also reflect the distinction between the three strands.</p> <ul style="list-style-type: none"> • understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation • can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems • can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems • are responsible, competent, confident and creative users of information and communication technology.
Half Term 2		
Half Term 3	Mobile App Students to be introduced to the concept of APP creation. They will design and make an APP using APP Shed. They will then use Code Avengers to learn HTML and JavaScript to give them an experience of writing code to develop a website.	
Half Term 4	Hardware and Software- C05-understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems	
Half Term 5		
Half Term 6		
Teaching Groups	Students will remain in form classes.	

Examples of Home Learning Tasks	Students will be given homework that they can access from google classroom. Students will be given research tasks as well as further development of topics they have covered in lessons. Students will have a Coursebook for every unit to complete for both classwork and homework. These will be printed and presented all pupils at the beginning of each unit and they will be marked within the marking cycle.
Assessment Tasks, Methods & Frequency	<p>Assessment</p> <p>This will be undertaken in 3 ways:</p> <ul style="list-style-type: none"> • Plenary in each lesson – where students will complete tasks from the coursebook • Half Term assessment of skills by the student based on their unit • Termly assessment of skills by the teacher (In addition to formal school reporting)
Equipment That Students Need	All equipment will be provided in school. Students will have folders to store work.

Parents / Carers can help their child by:	Ensuring any homework set is complete. The home learning set will be based on research that will help for the following lesson; therefore, parent support is greatly appreciated.
Useful Websites	<p>YouTube for inspiration</p> <p>Google for research</p> <p>Google classroom to access resources from home</p> <p>When students are given homework, they will also be given details of where and how to access the information needed.</p>
Extra-curricular Opportunities	TBC

Who do I contact	<p>Ms T Ansah – Head of ICT (Maternity Cover)</p> <p>tansah@bishopstopfords.enfield.sch.uk</p>
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Bishop Stopford's School Curriculum Overview

Year 10 – Business Enterprise (BTEC Technical Award)

	Curriculum Content	Skill Content
Half Term 1	Component 1 Coursework completion	Identify Outline Describe Deliver Plan Compare Review Explain Discuss Assess Evaluate
Half Term 2	Component 2 Planning for and Pitching an Enterprise - Learning aim A: Explore ideas, plan for a micro enterprise activity	
Half Term 3	Component 2 Planning for and Pitching an Enterprise - Learning aim B: Pitch a micro-enterprise activity	
Half Term 4	Component 2 Planning for and Pitching an Enterprise - Learning aim C: Review own pitch for a micro-enterprise activity	
Half Term 5	Component 3: Promotion and Finance for Enterprise - Learning aim A: Promotion	
Half Term 6	Component 3: Promotion and Finance for Enterprise - Learning aim B: Financial Records	

Exam board & Specification	Pearson Edexcel Pearson BTEC Level 1/Level 2 Tech Award in Enterprise
Examples of Home Learning Tasks	Google Classroom Exam questions Written activities and research tasks Coursework Completion
Assessment Tasks, Methods & Frequency	Classwork Homework Practice assignments Mock exams Students will be assessed frequently in lessons, during topics at each data collection
Equipment That Students Need	Stationary: pens, pencils, ruler, rubber, sharpener etc Calculator Computer equipment, books and folders to store work will be provided

Parents / Carers can help their child by:	Regularly discussing lesson topics with pupils. Ensuring all homework set is completed Purchasing: Revise BTEC Tech Award Enterprise Revision Guide
Useful Websites	Google Classroom https://qualifications.pearson.com/en/qualifications/btec-tech-awards/enterprise.html https://www.bbc.com/bitesize/subjects/zpsvr82 https://www.tutor2u.net/business
Extra-curricular Opportunities	Students will be involved in mini projects that will develop enterprise skills. There will be an opportunity for students to showcase their skills buy planning and pitching an enterprise idea.

Who do I contact	Ms A Tagg – Head of Business atagg@bishopstopfords.enfield.sch.uk
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Bishop Stopford's School Curriculum Overview

Year 10 – Computer Science (GCSE)

	Curriculum Content	Skill Content
Half Term 1	Problem solving and programming- High and low level programming languages, data structures, using Python, constructing loops, errors and debugging tools in an integrated development Environment	Students will continue to develop the skills to AO1 - Demonstrate knowledge and understanding of the key concepts and principles of computer science
Half Term 2	Compression- Data/ storage, Data Representation, Text Data representation including bitmaps, sound, CSV files and magnetic Data storage, optical and solid state storage.	
Half Term 3	Networks- Introduction to protocols, network security, cyberattacks, social engineering, phishing and shoulder surfing, USB devices, digital devices and eavesdropping	AO2 - Apply knowledge and understanding of key concepts and principles of computer science
Half Term 4	Protect software from cyberattacks - design and code reviews, secure operating systems The internet Physical routing and DNS The World Wide Web Embedded systems	
Half Term 5	Bigger picture- Environmental impact of technology (health, energy use, resources) on society. Understanding the ethical impact of using technology (privacy, inclusion, professionalism) on society, copyright, licensing and intellectual property ,open source and proprietary software	AO3 - Analyse problems in computational terms: <ul style="list-style-type: none"> • to make reasoned judgements; and • to design, program, evaluate and refine solutions
Half Term 6	Logic/ Computer components- What is a computer? Hardware vs. software Input-process-output mode, function of internal components, operating systems including files, hardware and the user interface. Boolean Logic	

Exam board & Specification	Edexcel Computer Science 9-1
Examples of Home Learning Tasks	Students will be given homework that they can access from google classroom. Students will be given research tasks as well as further development of topics they have covered in lessons. There will be elements of flip learning, where students are asked to research a topic then complete past exam questions based on the topic. Homework will be set on google classroom or from the revision guides as well as Seneca learning
Assessment Tasks, Methods & Frequency	In class mini plenaries (every lesson) / Homework tasks / End of unit assessments / Trial exams
Equipment That Students Need	Exercise books will be provided to pupils where they will carry out daily activities and log lessons. Basic equipment- pen, pencil and calculators will be needed.
Parents / Carers can help their child by:	Ensuring any homework set is complete. The home learning set will be based on research that will help for the following lesson, therefore parent support is greatly appreciated. Purchase of Computer science revision guide and workbook will be needed. (£5 from parentpay) Edexcel GCSE Computer Science Student Book by Steve Cushing
Useful Websites	Youtube for inspiration Google for research Log on to Google classroom regularly and complete Seneca Learning tasks When students are given homework they will also be given details of where and how to access the information needed.
Extra-curricular Opportunities	TBC

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Bishop Stopford's School Curriculum Overview

Year 11 – Business Enterprise (BTEC Technical Award)

	Curriculum Content	Skill Content
Half Term 1	Component 2 Planning for and Pitching an Enterprise - Learning aim A: Explore ideas, plan for a micro enterprise activity	Identify Outline Describe Deliver Plan Compare Review Explain Discuss Assess Evaluate
Half Term 2	Component 2 Planning for and Pitching an Enterprise - Learning aim B: Pitch a micro-enterprise activity	
Half Term 3	Component 2 Planning for and Pitching an Enterprise - Learning aim C: Review own pitch for a micro-enterprise activity	
Half Term 4	Component 3: Promotion and Finance for Enterprise - Learning aim A: Promotion	
Half Term 5	Component 3: Promotion and Finance for Enterprise - Learning aim B: Financial Records	
Half Term 6	Component 3: Promotion and Finance for Enterprise - Learning aim C: Financial planning and forecasting	

Exam board & Specification	Pearson Edexcel Pearson BTEC Level 1/Level 2 Tech Award in Enterprise
Examples of Home Learning Tasks	Google Classroom Exam questions Written activities and research tasks Coursework Completion
Assessment Tasks, Methods & Frequency	Classwork Homework Practice assignments Mock exams Students will be assessed frequently in lessons, during topics at each data collection
Equipment That Students Need	Stationary: pens, pencils, ruler, rubber, sharpener etc Calculator Computer equipment, books and folders to store work will be provided

Parents / Carers can help their child by:	Regularly discussing lesson topics with pupils. Ensuring all homework set is completed Purchasing: Revise BTEC Tech Award Enterprise Revision Guide
Useful Websites	Google Classroom https://qualifications.pearson.com/en/qualifications/btec-tech-awards/enterprise.html https://www.bbc.com/bitesize/subjects/zpsvr82 https://www.tutor2u.net/business
Extra-curricular Opportunities	Students will be involved in mini projects that will develop enterprise skills. There will be an opportunity for students to showcase their skills buy planning and pitching an enterprise idea.

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Bishop Stopford's School Curriculum Overview

Year 11 – Business Studies (GCSE)

	Curriculum Content	Skill Content
Half Term 1	Theme 2 Building a Business; Topic 2.5: Making human resource decisions	
Half Term 2	Revision: Theme 1 Theme 1 Investigating Small Business: Topic 1.1: Enterprise and entrepreneur Topic 1.2: Spotting a business opportunity Topic 1.3: Putting a business into practice Topic 1.4: Making the business effective Topic 1.5: Understanding external influences on business	Define Give State Identify Outline Explain
Half Term 3	Revision: Theme 2 Building a Business:	Discuss Calculate
Half Term 4	Topic 2.1: Growing the business Topic 2.2: Making marketing decisions Topic 2.3: Making operational decisions Topic 2.4: Making financial decisions Topic 2.5: Making human resource decisions	Analyse, Justify Evaluate
Half Term 5	Revision and final examination preparation	

Exam board & Specification	Pearson Edexcel Pearson Edexcel Level1/Level2 GCSE (9-1) in Business
Examples of Home Learning Tasks	Google Classroom Exam questions Written activities and research tasks Coursework Completion
Assessment Tasks, Methods & Frequency	Classwork Homework Practice assignments Mock exams Students will be assessed frequently in lessons, during topics at each data collection
Equipment That Students Need	Stationary: pens, pencils, ruler, rubber, sharpener etc Calculator Books and folders to store work will be provided

Parents / Carers can help their child by:	Regularly discussing lesson topics with pupils. Ensuring all homework set is completed Timing pupils to answer exam questions Setting time aside for frequent revision Purchasing: Revise Edexcel GCSE (9-1) Business Revision Guide, Revise Edexcel GCSE (9-1) Business Revision Workbook
Useful Websites	Google Classroom https://qualifications.pearson.com/en/qualifications/btec-tech-awards/enterprise.html https://www.bbc.com/bitesize/subjects/zpsvr82 https://www.tutor2u.net/business
Extra-curricular Opportunities	Homework clubs Revision sessions Bespoke exam preparation

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Bishop Stopford's School Curriculum Overview

Year 11 – Computer Science (GCSE)

	Curriculum Content	Skill Content
Half Term 1	Mock CA	Analysis Design (The algorithm / Test strategy and initial Plan) Implementation Testing, refining and evaluation
Half Term 2	Revision of last year's topics	
Half Term 3	CA Prep/ CA	
Half Term 4	Revision of last year's topics	
Half Term 5		

Exam board & Specification	Edexcel Computer science 9-1
Examples of Home Learning Tasks	Students will be given homework that they can access from google classroom. Students will be given research tasks as well as further development of topics they have covered in lessons. There will be elements of flip learning, where students are asked to research a topic then complete past exam questions based on the topic. Homework will be set on google classroom or from the revision guides as well as Seneca learning
Assessment Tasks, Methods & Frequency	In class mini plenaries (every lesson) Homework tasks End of unit assessments Trial exams
Equipment That Students Need	Exercise books will be provided to pupils where they will carry out daily activities and log lessons. Basic equipment- pen, pencil and calculators will be needed.

Parents / Carers can help their child by:	Ensuring any homework set is complete. The home learning set will be based on research that will help for the following lesson, therefore parent support is greatly appreciated. Purchase of Computer science revision guide and workbook will be needed. (£5 from parent pay) Edexcel GCSE Computer Science Student Book by Steve Cushing
Useful Websites	YouTube for inspiration Google for research Log on to Google classroom regularly and complete Seneca Learning tasks When students are given homework they will also be given details of where and how to access the information needed.
Extra-curricular Opportunities	TBC

Who do I contact	Ms T Ansah – Head of ICT (Maternity Cover)
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