Haywards Heath College

GETTING READY FOR PACK

BTEC Computing

We are delighted you have chosen to study BTEC Computing at Haywards Heath College

WHAT YOU WILL STUDY	
Unit/Topic	**BTEC Computing – Pearson BTEC Level 3 National Certificate in Computing** **Unit 2 Fundamentals of Computing (External) 90 GLH** Learners study fundamental principles of how a computer system works, including the role of hardware & software, the way components of a system work together & how data in a system is used **Unit 7 IT Systems Security & Encryption (Internal) 90 GLH** Learners will study IT system security & encryption. Practical activities will be undertaken to protect an IT system from security threats. Guidance in compiling reports will include referencing & methods for preventing plagiarism.

WHAT YOU NEED	
Kit List	N/A
Course Supplement	N/A
Equipment	Laptop & or PC Access,
Essential Textbooks	**Pearson BTEC National Computing Student Book** **Pearson REVISE BTEC National Computing Revision Guide** Digital Editions of will be available on our Team following enrolment. Please see further details in recommended reading

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ENRICHMENT	
Trips	Science Museum – Information Age Gallery
Guest Speakers	N/A
Events	N/A

OPTIONAL ADDITIONAL READING/STUDY	
	See Recommended Reading below

SUMMER WORKING TASK INFORMATION
Completion Date: First Lesson Week Commencing 9/9/24
This pack will help you make the best possible start to studying this subject. The tasks in this pack should take you about 4 hours to complete. The tasks are designed to get a bit more difficult as you work through them as they are preparing you for studying at a higher level and to become an effective independent learner. You should try to get as far as you can working on your own but if you do need help, please email us at **info@haywardsheath.ac.uk** telling us which Getting Ready For pack you are working on and what help you need. Help is available throughout the summer holidays.

SUMMER WORKING TASK	
Skills Focus	**The ability to choose the correct method to solve a problem. Your quality of English communication when a written answer is required. Clarity of logical communication – how well you show your workings and lay out your work.** **Ability to research a given programming language independently.** **Marking and correcting your work, revising any topics you have forgotten.** **GCSE subject knowledge, Linear Number Patterns, Digital Literacy, Understanding Algorithms, Programming Theory, Hardware, Software, Applications, Cyber Security**
Task 1 **Research** **Target Grade** – All **Deadline** 9/9/24	**Independent Research & Retention of Information** During the first year of studying Computing, you will be doing an assignment based unit on Cyber Security. To help you research and understand more about Cyber Security you will need to sign up for this free course offered by Open Learn as part of the Open University. Please enrol using your personal email, and complete the first 2 weeks of the course. The 24 hour course will be completed & discussed during the first few weeks of our course. Once completed you will achieve a badge & certificate which you can add to your achievements. Introduction to cyber security: stay safe online: Introduction to cyber security: 1.3	OpenLearn - Open University

Task 2 Summarise your research Target Grade – Most Deadline 9/9/24	**Making Notes & Describing without Copying** You should make notes from the course & interpret this into your own words so you can't be accused of copying. Do this in a MS Word document so we can save it in your file area once you have enrolled on the course. Copy the website link so that you can show where you did your research.
Task 3 Essay Target Grade – Some Deadline 9/9/24	**Extension Work** The senior leadership team at a school is discussing different storage media. The administrative staff want to use the 'cloud'. The technical team wants to use servers located on the school grounds. Compare storing data in the 'cloud' with storing data on hard discs connected to the school's servers.

Notes:
Not everyone will have studied GCSE Computer Science, however you will need to be familiar with the logic terms by the start of the course and many of these will be familiar from maths. Please indicate clearly on your work at the start whether you studied GCSE Computer Science or Information Technology.
Clearly label all pages with name, arrange them in the correct order. You do not need to print the sheets although you may choose to do so for your own records.

RECOMMENDED READING/WATCH LIST	
Contextual Info	
Book	**Name & ISBN**
Pearson BTEC National Computing Student Book	
Publisher : Pearson Education; 1st edition (30 Jan. 2017)	
ISBN-10 : 1292166924	
ISBN-13 : 978-1292166926	
BTEC National Computing Student Book (BTEC Nationals Computing 2016): Amazon.co.uk: Phillips, Jenny, Jarvis, Alan, McGill, Richard, Fishpool, Mark, Cook, Tim, Atkinson-Beaumont, David: 9781292166926: Books	
Pearson REVISE BTEC National Computing Revision Guide Publisher	
ISBN-10 : 1292150203	
ISBN-13 : 978-1292150208	
Pearson REVISE BTEC National Computing Revision Guide inc online edition - 2023 and 2024 exams and assessments: for home learning, 2022 and 2023 ... exams (REVISE BTEC Nationals in Computing) : Fishpool, Mark, Gate, Christine, Farrell, Steve, McGill, Richard: Amazon.co.uk: Books	
Video	**N/A**