

REMOTE CLASSROOM



DETERMINED TO MAINTAIN ACCESS TO HIGH QUALITY LESSONS

COMPUTING work for students NOT attending school

Friday 4 – Friday 11 September

SUBJECT	Computing
Year Group	7
Fortnight beginning	1 st September – 18 th September
Remote Classroom work	<ul style="list-style-type: none"> You will need to create a presentation that tells us a little bit about yourself. Use the presentation template available below to tell us a little bit about yourself: Where were you born, your age, who your friends are, Your family, pets, what you like to do for fun, what you would like to be when you are older. Be sure to put images of the things you are talking about into the presentation and use transitions and animations to make it more interesting. A simple example of a completed presentation can be found here: S:\ICT\Key Stage 3\Year 7\ About me (Example).pptx A layout or template that you might like to use can be found here: S:\ICT\Key Stage 3\Year 7\ All about me (Template).pptx To create the presentation you could use Office Online to use PowerPoint, or Log into Google Slides.

SUBJECT	Computing
Year Group	8
Fortnight beginning	1 st September – 18 th September
Remote Classroom work	<ul style="list-style-type: none"> This unit, we will be making an Interactive Quiz on the Subject of Computers and Computing. To do this, we need to research into the technologies used by computers and create a well-designed quiz using difficult questions. We need to do some research into how to set out our interactive quiz to make sure that it is well presented and easy to use. To do that, we can review websites that already exist and see what makes them good or bad. Task 1: Website Evaluation - Look at the 4 websites on this sheet and write down your feelings about how well you think they are designed. Then, at the end, state three things that you think are important in a well-designed website.

	<ul style="list-style-type: none"> • Task 2: Good and Bad Website Design – Look in depth at the 2 websites on the sheet and identify the best aspects of design as well as the ways in which improvements can be made • Task 3 – Website Evaluation. Review the two websites on the sheet and state the audience (who you think it is aimed at), The purpose of the site, how you navigate around the site (buttons, hyperlinks, menu?), how the colours and images are used to help you take in the information on the page. • Task 4 – Interactive Quiz Design – Use the information you have got so far to design your own layout for an interactive quiz. What do you think is important when setting out your own page? <ul style="list-style-type: none"> • Files for each of the tasks (1-4) are located here: S:\ICT\Key Stage 3\Year 8\8.1 Interactive Quiz\Lesson 1
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SUBJECT	Computing
Year Group	9
Fortnight beginning	1 st September – 18 th September
Remote Classroom work	<ul style="list-style-type: none"> • You are going to learn about Computing and Computer Science, gaining an understanding of the way computers deal with Data and Information as well as the uses of numbering systems. • This task requires you to identify your current understanding of the subject area by completing a short assessment task designed to see what you already know. • The task can be found here: S:\ICT\Key Stage 3\Year 9\Computer Science\Baseline Assessment\Year 9 Computing- Baseline Assessment (1).xlsx • Please save the completed file and email the score page (or a screenshot) to Mr Allan when completed

SUBJECT	GCSE Computer Science
Year Group	10
Fortnight beginning	1 st September – 18 th September
Remote Classroom work	<ul style="list-style-type: none"> • Introduction to Python • Lesson 1- Introduction to Python (Basic Commands and Syntax) · • Lesson 2 - Variables and Data Types · Students to read through Lesson Presentations 1 and 2 and complete worksheets 1 and 2 • Python IDLE can be downloaded here: https://www.python.org/downloads/ • Alternatively an online IDE can be used here https://repl.it/languages/python3 • Task located at: S:\ICT\Mr Murphy\Key Stage 4\Computer Science\6 - Python

SUBJECT	GCSE Computer Science
Year Group	11
Fortnight beginning	1 st September – 18 th September
Remote Classroom work	<ul style="list-style-type: none"> • This unit will be looking at Networks and the way they allow data to be communicated electronically. • You will need to view the following presentations about Wired and Wireless Networks and identify the hardware and the software involved before moving onto the second presentation about the types of

	<p>Security required when running a network</p> <ul style="list-style-type: none"> The following Website has information about Network Hardware and Security and may be beneficial when completing the tasks: https://www.bbc.co.uk/bitesize/topics/zjxytrd S:\ICT\Computer Science\GCSE Computer Science 9-1\7. Networks\New\1 - Wired and Wireless.pptx S:\ICT\Computer Science\GCSE Computer Science 9-1\7. Networks\New\ 2 - Network Security.pptx
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SUBJECT	BTEC Computing
Year Group	12
Fortnight beginning	1 st September – 18 th September
Remote Classroom work	<ul style="list-style-type: none"> You are beginning a unit of work entitled “Fundamentals of Computer Systems” in which you will learn about how computer systems deal with Data and the architectures designed to allow them to function before investigating the way data is transmitted between systems and the use of logic for processing the data. This task will require you to begin by identifying logic and syntax errors within a program. You will then need to create an algorithm using a flowchart that represents a car park and the barrier allowing cars in depending upon the number currently already present. Finally, you will write your own program using Python that will allow random people to be selected from a list. An online version of python can be found here: https://repl.it/languages/python3 The task itself is here: S:\ICT\Computer Science\BTEC Computing\BTEC Computing - Baseline Assessment Test.docx

SUBJECT	BTEC Computing
Year Group	13
Fortnight beginning	1 st September – 18 th September
Remote Classroom work	<ul style="list-style-type: none"> You are undertaking a unit of work called “Network Security and Encryption” in which you will learn about how to ensure that data security is maintained when transmitting across networks. This task requires you to gain an understanding of symmetric and asymmetric encryption. You also need to create a program using python that works in the same way as a Caesar cipher and allows you to enter a message before it is converted into encrypted data using a predefined key Answer the examination questions in the presentation located here: S:\ICT\Computer Science\BTEC Computing\Unit 7 - Network Security and Encryption \1 - What is Encryption.pptx Read the following document on the subject of encryption and take notes. S:\ICT\Computer Science\BTEC Computing\Unit 7 - Network Security and Encryption \Symmetric and Asymmetric Encryption - Gustav Simmons.pdf