

BTEC IT Transition Work June 2020

For each subject you will receive a detailed introduction to allow full transition into the college and your new learning. Please complete the weekly tasks outlined below and attend the meet sessions with the teachers for further guidance and information. Please keep all work created in a folder to present to me in the first lesson in September.

Computer Science A Level	Google Classroom Code:	Google Meet code:
	jtehfpq	This will be linked on Google Classroom
Weekly Tasks	Topic	Resources
W/C 1.6.20	Operating Systems (CDC)	<p>Complete the worksheet looking at the key types of operating systems. Here below are some helpful links to get you started:</p> <p>https://www.bbc.co.uk/bitesize/guides/zprkd2p/revision/1</p> <p>https://www.teach-ict.com/gcse_new/computer%20systems/operating_system_types/miniweb/index.htm</p>
W/C 8.6.20	Networks (CDC)	<p>In this task you are going to be investigating networking solutions in business and the different types of networks. This is an important topic as companies rely heavily on different networking solutions.</p> <p>Here below are some helpful links:</p> <p>https://www.teach-ict.com/gcse_new/networks/computer_networks/miniweb/index.htm</p> <p>https://www.teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/virtual_networks/miniweb/index.php</p> <p>https://www.bbc.co.uk/bitesize/guides/zh4whyrc/revision/1</p>
W/C 15.6.20	Tracking Content formats on Social Media (ARE)	<p>On the of the units you will take in BTEC ICT is Social Media in ICT. You will run the social media for a business and will have to post content to market the business and build an online community. For your first transition task, I would like you to look at the content formats of business posts on four different social media platforms over the course of five days. So:</p> <ol style="list-style-type: none"> 1. Pick four different social media platforms (ideally from Facebook, Twitter, SnapChat, Instagram, Pinterest, LinkedIn, Youtube) 2. Over five days, complete the following each day: <ol style="list-style-type: none"> a. Scan through the first 150 posts on each platform. b. Produce a tally of what content formats you see posted from business/advertising accounts in those first 150 posts. Categories to look our for are: Text, Image, Video, Hashtag/Keywords, Poll, Game, Augmented Reality, links to business websites, List posts)

		<ol style="list-style-type: none"> 3. At the end of the five days, total up the tally's to see what content formats are the most/least popular. 4. For the most popular, pick an example and explain why you feel it is an effective tool for marketing and engaging customers 5. For the least popular, explain why you think it is used less.
W/C 22.6.20	Digital Revolution (SAS)	<p>One of the first units you will be undertaking is Digital Devices and one of the first tasks is to explore the Digital Revolution.</p> <p>For this task, you will need to write a side of A4;</p> <ol style="list-style-type: none"> 1. Research how the digital revolution began and what led to the creation of the worldwide web. 2. Begin your search in the mid-1900s. 3. You can extend your search to the developments which have arisen through space travel <p>The following websites will help you gather information https://www.nasa.gov/topics/technology/high-tech-computing/index.html https://www.techopedia.com/definition/23371/digital-revolution https://www.infrastructureinvestor.com/from-then-to-now/ https://www.weforum.org/agenda/2016/01/the-fourth-industrial-revolution-what-it-means-and-how-to-respond/</p>
W/C 29.6.20	Modelling in Business using Spreadsheets (ARE)	<p>Another unit you need to cover is using spreadsheets for modelling (particularly financial) in business. Spreadsheets have thousands of features and functions that are useful for businesses.</p> <p>Part 1 - I would like you to research the following spreadsheet features (we will be using Microsoft Excel) as the basis for this) and explain what they do:</p> <ol style="list-style-type: none"> 1. Formulas 2. Macro's and automation 3. Pivot Tables 4. Lookup Formulas 5. Charts and Graphs 6. Sorting and Filling 7. Conditional Formatting 8. Validation Rules <p>Part 2 – Considering a business example - in this case, a local gym with around 800 members, for each of the features above give a short explanation of how you think a business like that could effectively use that feature in their financial planning/tracking.</p>
W/C 6.7.20	Digital Devices (SAS)	<p>Explain what each of the following digital devices do</p> <ul style="list-style-type: none"> • Entertainment systems (you need to consider all the ways in which you can listen to music or watch videos, e.g. MP4 player, Amazon Firestick) • Smart tvs • Digital camera • Navigation system • Communication systems <p>(e.g. one of the reasons a smart tv is smart is because it can connect to wifi)</p>

		The following websites may help you https://en.wikipedia.org/wiki/Entertainment_system https://www.computerhope.com/jargon/d/digicame.htm https://www.tomsguide.com/uk/us/smart-tv-faq,review-2111.html
Fortnightly Meet: Date & Time	Teacher delivering	Resources
Fri 5 th June 20 09:00am	CDC	<u>Unit 1 Taster Session – Operating Systems and Networks</u> Investigate the different types of networks and operating systems there are and where/how they are used in business. This will be linked in to your first 2 weekly tasks.
Mon 15 th June 20 09:00am	ARE	<u>Unit 3 and 5 – Social Media and Spreadsheets</u> This session will introduce you to the 2 coursework units and allow you to start to explore the skills needed for these units.
Mon 6 th July 20 11:30am	SAS	<u>Unit 1 Taster Session – Digital Devices</u> You will be learning what digital devices are, why they are called digital devices and exploring different digital devices.

General resources and suggested reading:

Specification Link:

https://qualifications.pearson.com/content/dam/pdf/BTEC-Nationals/Information-Technology/2016/specification-and-sample-assessments/9781446938058_BTEC_NAT_ExtCert_IT_Spec_Iss2CUpd.pdf

Preferred websites:

<https://www.knowitallninja.com/>
<https://www.bbc.co.uk/news/technology>
<https://www.youtube.com/channel/UCCFKROzCbRBVMxYGvgeqULQ>

Possible additional interest reading: