

Y11-12 Bridging work – ICT and Computing

OCR Level 3 Cambridge Technical Introductory Diploma in IT (05840) info:

[Diplomas Handbook](#) - pages 7-10, 34-35

[Unit 1 – Fundamentals of IT](#)

[Unit 2 – Global Information](#)

[Unit 6, 9 and 21](#) – Unit Recording Sheets

Independent Study Work

1. Go to <http://www.ictworkout.co.uk/topics.php> and log in using the username KingEdward6 password ratio88. Starting with Computer Systems work through the topics, read through the presentations and complete the exercises.
2. Read an article on <https://www.bbc.co.uk/news/technology>. Write a short account of what the article is about – technological developments and impact.
3. Watch an episode of BBC click <http://www.bbc.co.uk/programmes/b006m9ry> for new developments in ICT. Produce a short presentation to showcase the new development to the class.
4. Research into IT jobs that are available; What field of IT? What job requirements? What does the job involve on a day to day basis? What skills and attributes would be desirable in that role?
5. Go to http://www.teach-ict.com/gcse_computing/ocr/GCSE_A451_topics.html, <http://www.teach-ict.com/asa2home.htm> and/or http://www.teach-ict.com/2016/A_Level_Computing/OCR_H446/OCR_H446_home.html and select a topic. Try out the online activities in each section.
6. Use w3 schools to work through online coding tutorials in html and JavaScript
 - a. HTML - <http://www.w3schools.com/html/default.asp>
 - b. JavaScript - <http://www.w3schools.com/js/default.asp>
7. Familiarise with Laws associated with IT. What are they? Who is involved? What can be the consequences? Find examples of when the law was broken and what happened.
8. Investigate security issues related to IT. What are they? Who is involved? What can be the consequences? Find examples of when the security issue was breached and what happened.
9. Sign up to iDEA on <https://idea.org.uk/> and complete a selection of challenges to work towards your Bronze Award.
10. Plan and design an app to help stay fit at home. Plan the structure of the app, the pages, content and links. If you can make the app using <https://code.org/educate/applab> or other suitable software/websites.