

OCR A Level Year 2 SOW 2017-2018

Three 100 Minute lessons each week.

Week No	Date	Lesson	Homework/Resources
1	04/09/2017	Coursework Week Recap Coursework guidelines Look at Exemplars Progress check	https://ed.ted.com/lessons/can-you-solve-the-bridge-riddle-alex-gendler https://ed.ted.com/lessons/can-you-solve-the-prisoner-hat-riddle-alex-gendler VB.Net programming exercises Homework: Programming exercises
2	11/09/2017		VB.Net programming exercises Homework Pseudo code and programming exercises
3	18/09/2017		Exam style programming questions

4	25/09/2017		<p>Binary numbers Worksheets to help understand binary.</p> <p>Data types - Delivery guide (PDF, 1MB)</p> <p>Activity: Binary numbers</p> <p>Denary to Hex conversion Jigsaw that requires matching denary and hex numbers.</p> <p>Data types - Delivery guide (PDF, 1MB)</p>
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5	02/10/2017		Binary numbers game Flash game to convert between denary and binary. Data types - Delivery guide (PDF, 1MB) Activity: Binary numbers game
6	9/10/2017		Activity 1 - Structure and function of the processor Learners take it in turn to describe the different parts and functions of processors without using words. Structure function processor - Delivery guide (PDF, 1MB)
7	16/10/2017		Activity 2 - Fetch-Decode-Execute cycle Study the steps of the Fetch-Decode-Execute cycle. Structure function processor - Delivery guide (PDF, 1MB)

Half Term

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8	30/10/2017		VB.Net programming exercises
9	06/11/2017		Sorting of numbers and text in VB.Net
10	13/11/2017		Activity 1 - Structure and function of the processor Learners take it in turn to describe the different parts and functions of processors without using words. Structure function processor - Delivery guide (PDF, 1MB)
11	20/11/2017		Data structure cards Worksheet to help visualise data structures. Data structures - Delivery guide (PDF, 1MB)
12	27/11/2017		Program DS in Python or Visual Basic.net Use the pseudocode written to now develop programs.

13	04/12/2017		<p>Tree traversal</p> <p>Worksheet to help students to understand tree traversal algorithms pre-order, in-order and post-order.</p> <p>Data structures - Delivery guide (PDF, 1MB)</p>
14	11/12/2017	Revision of what is covered so far and more programming exercises.	
XMAS HOLIDAYS			
15	03/01/2018	<p>Analysis Intro</p> <p>Discussion on coursework projects. Start writing up the analysis of the project</p> <p>Look at various coursework documentation.</p>	
16	10/01/2018	<p>1.4.2(b) The following structures to store data:</p> <p>hash table</p> <p>Coursework Lesson</p> <p>Introduction to Fact finding techniques and documenting them</p>	<p>What is hashing, collision and collision resolving strategies like open and closed hashing. Rehashing.</p>
17	16/01/2018		

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18	23/01/2017		
19	30/01/2017		
20	6/02/2017		
HALF TERM			
21	20/02/2017		
22	27/02/2017		
23	6/03/2017		
24	13/03/2017		
25	20/03/2017		
EASTER HOLIDAYS			
26	18/04/2017		
27	24/04/2017		
28	1/05/2017		
29	8/05/2017		
30	15/05/2017		
31	22/05/2017		

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