

AQA GCSE (8525)

SLR 7 Algorithms

All files needed for this topic are in this folder.

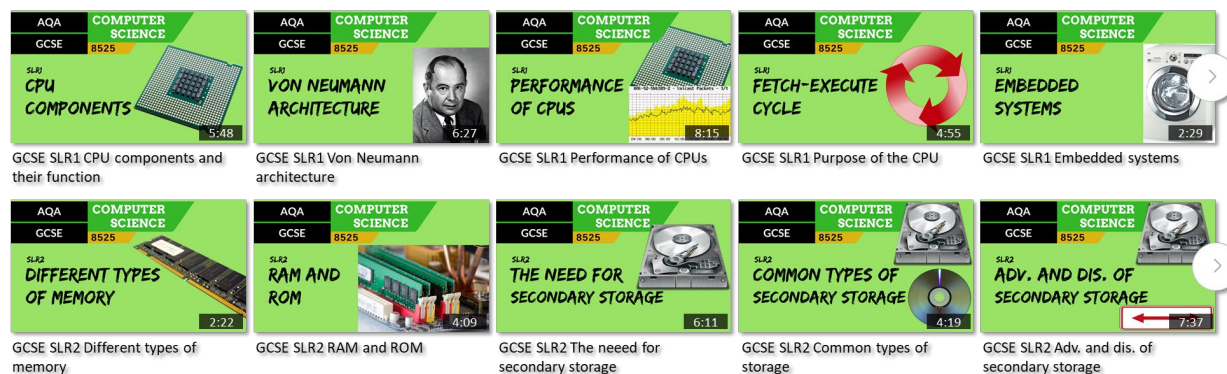
It covers: 3.1.1 – 3.1.4 from the specification

In this folder you will find:

- Lesson overview PowerPoints providing you with a structure for each topic
- Workbook for students to complete
- Workbook model answer for teachers
 - These can be printed out in hardcopy at 4-slides per page double-sided and make great knowledge organisers for your students
- End of topic test (out of 20)
- Additional resources as required

Theory coverage

With Craig'n'Dave resources you do not need to teach the content of the course from the front of the class. That is why we don't include PowerPoints of the theory. Instead you set students a video to watch ahead of the lesson from our YouTube channel: www.youtube.com/craigndave and advise them to pause the video when they see the notes icon. They record this key theory in an exercise book that they bring to the lesson to help them complete the theory activities. The entire specification is covered point by point in these videos.



Additional resources

Don't forget that your subscription comes with full access to all our additional resources. These can be found under the "Other GCSE Level Resources" page (green tile) within your premium site. These include:

- Programming resources
- Delivery guides / calendars
- Key terminology databases
- Pseudo code cheat sheet
- And lots more...

GCSE COMPUTER SCIENCE CALENDAR 2016-17
YEAR 10

Week	Date	Lesson
1	05/09/2016	Introduction Lesson 1.1 Lesson 1 1.1 Lesson
2	12/09/2016	1.1 Lesson 2 1.1 Lesson 3 1.1 Lesson 4
3	19/09/2016	Programming Programming Programming
4	26/09/2016	1.2 Test 1.2 Lesson 1 1.2 Lesson 2
5	03/10/2016	1.2 Lesson 3 1.2 Lesson 4 1.2 Lesson 5
6	10/10/2016	1.2 Test 1.2 Lesson 6 1.2 Lesson 7
7	17/10/2016	1.2 Lesson 8 1.2 Lesson 9 1.2 Lesson 10
Half Term		
1	31/10/2016	1.3 Test 1.3 Lesson 1 1.3 Lesson 2
2	07/11/2016	1.3 Lesson 3 1.3 Lesson 4 1.3 Lesson 5
3	14/11/2016	1.3 Lesson 6 1.3 Lesson 7 1.3 Lesson 8
4	21/11/2016	1.3 Lesson 9 1.3 Lesson 10 1.3 Lesson 11
5	28/11/2016	1.3 Test 1.3 Lesson 12 1.3 Lesson 13
6	05/12/2016	Programming Programming Programming
7	12/12/2016	Programming Programming Programming
Christmas		
1	02/01/2017	1.4 Lesson 1 1.4 Lesson 2 1.4 Lesson 3
2	09/01/2017	1.4 Lesson 4 1.4 Lesson 5 1.4 Lesson 6
3	16/01/2017	1.4 Lesson 7 1.4 Lesson 8 1.4 Lesson 9
4	23/01/2017	Programming Programming Programming
5	30/01/2017	1.5 Test 1.5 Lesson 1 1.5 Lesson 2
6	06/02/2017	1.5 Lesson 3 1.5 Lesson 4 1.5 Lesson 5
Half Term		
1	20/02/2017	1.6 Lesson 1 1.6 Lesson 2 1.6 Lesson 3
2	27/02/2017	1.6 Lesson 4 1.6 Lesson 5 1.6 Lesson 6
3	06/03/2017	1.6 Lesson 7 1.6 Lesson 8 1.6 Lesson 9
4	13/03/2017	1.6 Test 1.6 Lesson 10 1.6 Lesson 11
5	20/03/2017	1.7 Lesson 1 1.7 Lesson 2 1.7 Lesson 3
6	27/03/2017	1.7 Lesson 4 1.7 Lesson 5 1.7 Lesson 6
7	03/04/2017	1.7 Test 1.7 Lesson 7 1.7 Lesson 8
Easter		
1	24/04/2017	1.8 Lesson 1 1.8 Lesson 2 1.8 Lesson 3
2	01/05/2017	1.8 Lesson 4 1.8 Lesson 5 1.8 Lesson 6
3	08/05/2017	1.8 Lesson 7 1.8 Lesson 8 1.8 Lesson 9
4	15/05/2017	Programming Programming Programming
5	22/05/2017	1.9 Test 1.9 Lesson 1 1.9 Lesson 2
Half Term		

GCSE 8525 Paper 1 | SLR7 Algorithms

Bubble sort

How a bubble sort works:

Note how 32 has "bubbled" to the top. This is how the bubble sort got its name.

The algorithm has been optimised so it does not check the numbers already bubbled to the top. It can also stop if no swaps are made after all the numbers are checked.

STARTER

The picture below shows Perrygrove railway. In what ways is this an example of abstraction?

Our pedagogy

Read more about our pedagogy here:

<http://craigndave.org/our-pedagogy/>

We also have some YouTube videos which explain how to get the most out of our "Structured Learning Records" for assessment as well more about the flipped classroom approach:

<https://www.youtube.com/watch?v=IXo5FS7JXUw&list=PLCiOXwirraUBEEFcJfSQgE2P-pcor9b9c>

More reasons to teach with Craig'n'Dave

Find out more about why we think our resources are the best available for delivering GCSE Computer Science here: <http://craigndave.org/why-teach-with-craigndave-resources>

If you have any issues opening any of the files, or experience any other problems, please email support@craigndave.org

We always welcome your feedback. Please send any to support@craigndave.org