

OCR A LEVEL (H446) FREE RESOURCES

These free resources provide everything you need to cover the following topics:

It covers: **Structure and function of the processor, Types of processor, Input, output and storage**

Each unit contains three folders:



Contains all the activities for you to share with your students.
We often provide **more** activities than your students could reasonably complete in the time provided.
We constantly improve and add to our bank of activities for each SLR, so please check each year for the latest updates!
Pick and choose the most appropriate activities for your students as required.



Contains all the activities **plus** model answers.
For you to use as you see fit.
Ideal for displaying at the front of the class.



Contains the Structure Learning Records for your students to fill out as they carry out the activities above.
These provide your method of assessment. There is a video in this folder explaining how to get the most out of our SLRs.
Contains answers to the exam questions set in the SLRs.

We also provide a blank copy of our “A Level Key Terminology” document.

Students can use this to build up a glossary of the key terms throughout the course. It is not essential, but will provide them with a useful revision tool. Definitions are included in the premium resources.

For guidance on how to formally assess your students at the end of this topic and to get the most out of our Structured Learning Records (SRLs) please check out the following video on our YouTube channel:



[👁 Assessment with Craig'n'Dave – \(AS/A Level\)](#)



Theory coverage

With Craig 'n' Dave resources, you do not need to teach the content of the course from the front of the class. Instead, you set students a video to watch ahead of the lesson from our student page:

student.craigndave.org

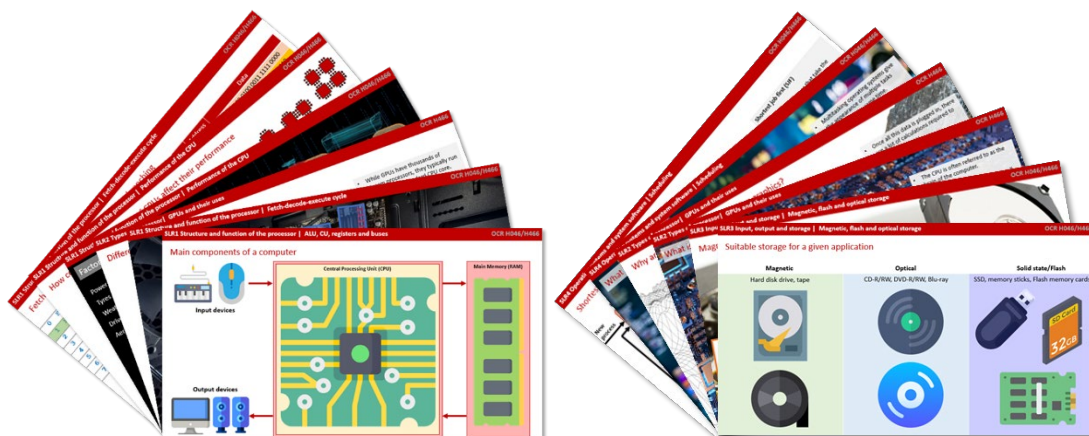
Advise them to pause the video and make notes in an exercise book that they bring to lessons to help them complete the theory activities. The entire specification is covered point by point in these videos.

The screenshot shows the 'Craig 'n' Dave For Students' website. At the top, there's a navigation bar with a power button icon, the text 'Craig 'n' Dave For Students', and links for 'Shop' and 'Videos'. Below this is a red banner with the text 'OCR A Level H046/H446 Videos'. To the right of the banner is a close-up image of a yellow autumn leaf. Below the banner, a text block recommends using the Cornell method of note taking. The main content area features ten purple square icons, each representing a video topic: a microchip (SLR01), a microchip with pins (SLR02), a folder with a downward arrow (SLR03), a laptop (SLR04), gears (SLR05), a person with glasses and a code symbol (SLR06), a laptop with binary code (SLR07), a code symbol in a square (SLR08), a server rack (SLR09), and a database cylinder (SLR10). Each icon is followed by its corresponding title and specification level.

To make the most of our videos, we recommend using the Cornell method of note taking. You can read more about it on the [Cornell note taking page](#) on our website.

SLR01 – Structure and function of the processor (AS & A'Level)	SLR02 – Types of processor (AS & A'Level)	SLR03 – Input output and storage (AS & A'Level)	SLR04 – Operating systems – Systems software (AS & A'Level)	SLR05 – Application generation (AS & A'Level)
SLR06 – Software development (AS & A'Level)	SLR07 – Types of programming language (A'Level Only)	SLR08 – Introduction to programming (AS Level Only)	SLR09 – Compression encryption and hashing (A'Level Only)	SLR10 – Databases (AS & A'Level)

If you wish to deliver our theory videos in a more traditional approach however we also provide them as PowerPoints file. These can be downloaded from your premium resources login.



README – Our free resources

Additional resources

Don't forget a premium subscription comes with full access to **ALL UNITS / TOPICS** as well as all our additional resources, these include:

- Programming resources (Python, C#, T.I.M.E, Defold games development)
- Delivery guides/calendars
- Teacher marking checklist
- Key terminology databases
- AS recap lessons to use in year 13 before embarking on new material
- Student revision checklists
- "Those little extras" pack
- PDF copy of our "Essential algorithms and data structures" book from Amazon
- PDF copy of our "Documenting Defold programming projects OCR H446" book from Amazon
- Cheat sheets
- Text-based adventure game (Telium)

Internal computer architecture

Network and the internet

Understand physical star topology and logical bus network topology
Differentiate between them and explain their operation

2. Using the items shown here, construct a diagram that shows your understanding of a physical star topology.

The collage features several educational materials:

- Lesson Plans:** Multiple tables showing lesson schedules with columns for Week, Lesson, and Topic. Topics include 'Data type', 'Integer', 'Real/float', 'Boolean', 'Character', 'String', 'Date/time', 'Pointer/reference', 'Record', 'Array/list', 'User-defined data type', 'Assignment', 'Subroutine', 'Sequence', 'Selection', 'Iteration', 'Count-controlled loop', and 'Condition-controlled loop'.
- Network Diagram:** A diagram illustrating a physical star topology. It shows three computers connected to a central switch, which is then connected to a file server. The diagram is labeled 'Computer', 'Switch', and 'File server'.
- Cheat Sheet:** A document titled 'Internal computer architecture' and 'Network and the internet'. It includes a list of components: processor, main memory, address bus, data bus, control bus, and I/O controllers. It also includes a section on 'Minimum expectations and learning outcomes' and a 'Feedback' table.



READY TO BUY?

If you like what we have to offer then head over to our online shop to purchase.

All purchases come with a lifetime sitewide licence for a single institution.



shop.craigndave.org/store

Our pedagogy

Read more about our pedagogy here:



YouTube



craigndave.org/our-pedagogy

We have additional videos which you might find useful which explain the Flipped Classroom method of teaching on our YouTube channel:



YouTube



youtube.com/watch?v=ErJIJ5xhW-M&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 A Level Computer Science here:

craigndave.org/why-teach-with-craigndave-resources

If you have issues opening any of the files or experience any other problems, or you just want to ask us a question / provide feedback feel free to email us:



✉ admin@craigndave.co.uk



