A LEVEL
COMPUTER SCIENCE H446

OCR
Oxford Cambridge and RSA

Support highlights

We've collated links to some of our core resources into this one-stop guide. These highlighted resources will enable you to get up to speed quickly in the classroom and support your students in preparing for assessment. They include materials that will focus your teaching on individual abilities of students, help determine their capabilities and above all save you time. Many more resources are available from the OCR website.

Sample Curriculum Guide

Download out sample curriculum guide

A guide for teachers demonstrating the order in which topics could be taught, containing a teaching schedule. This guide assumes delivery of the three units will take place over approximately 32 weeks in the first year and 30 weeks in the second year.

Project Setting Guidance

Download out project setting guidance

This guide offers advice on choosing a suitable project for component 03/04 – the Programming Project. It includes advice on scope and languages, including sample project ideas. We do not provide project titles. However, we do support teachers in identifying suitable project scope. Details on how to get generic feedback/scoping on students' project ideas are available from the subject advisors.

Delivery Guides and Topic Exploration Packs

Download our delivery guides

Download our topic exploration packs

The delivery guides and the topic exploration packs are available for the full content of the specification. When combined, the two together will help teachers plan for and teach content from the specification by giving guidance on key concepts and suggesting classroom activities with links to resources and suggested answers.
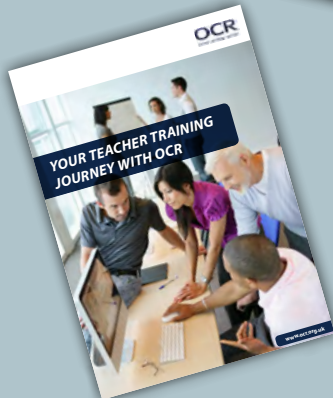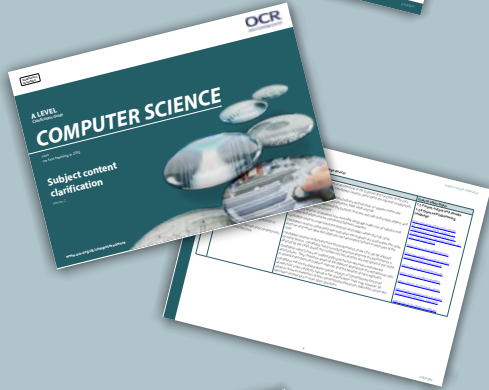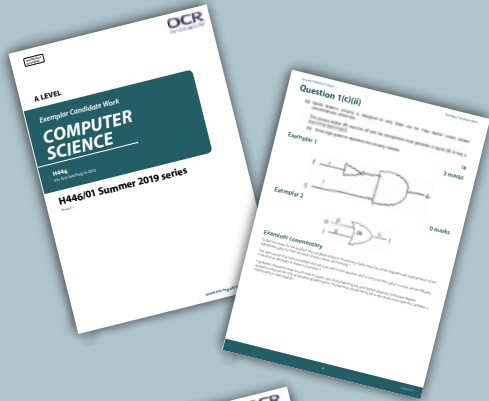
You may also like

Assessment materials
Access past papers, mark schemes and examiners' reports from the OCR website.

ExamBuilder
ExamBuilder is the question-building platform for a range of our GCSE, A Level, Cambridge Nationals, Cambridge Technicals and Functional Skills qualifications. You can see the full list of available qualifications on the sign up page. ExamBuilder is **free for all OCR centres** with an Interchange account and gives you unlimited users per centre.

When you sign up for ExamBuilder and your details have been verified, you will receive an automated email from no-reply@exambuilder.ocr.org.uk to finish your registration and gain access to ExamBuilder.

Candidate Exemplars

Download our candidate exemplars

Exemplar Candidate work with examiner's commentary for H446/01 and H446/02 as well as programming project H446 03/04 exemplar candidate work with moderator commentary for high, mid and low level are available to download from our subject webpage 'assessment' area.

Subject Content Clarification Guide

Download our subject content clarification guide

This guide sets out the expected depth of knowledge required and what candidates are expected to know for the assessment.

Extended Writing Framework

Download out extended writing framework

This framework allows candidates to structure essay style (level of response) questions in a fashion that elicits meaningful responses that cover all the assessment points for the given context. It can be used to practice structuring longer response answers, an essay planning tool or as a framework to analyse computer science related topics in the media.

New resources to support you

ExamBuilder Quizzes

We are producing a new guide to creating effective ExamBuilder practice examinations. This guide will cover how to shape your paper around Assessment Objectives, styles of questions and a balance of questions. *Coming soon.*

Professional Development

Understanding the Assessment - Exams preparation for AS and A Level - Computer Science H046, H446 (Webinar)

You've had a chance to reflect on your students' performance in the summer 2019 exam series with no exams in the summer 2020. This event will offer detailed and constructive feedback into where candidates struggled and how you can better support future cohorts. The event complements our examiners' reports and exemplar materials, and will give delegates the chance to discuss specific misconceptions or issues, as well as areas where students performed well. The session will also cover other assessment-related resources and support available from OCR.

Improving Your Delivery: NEA best practice in delivery and assessment for AS and A Level Computer Science (H046/H446) (Webinar)

Once you have made the decision to teach with OCR, you will have access to a wide range of support and expertise. This webinar is a one-stop shop for all your needs in understanding the specification and the mark scheme, as well as the array of resources and support that are available to support you, both in delivering AS and A Level Computer and understanding its assessment.

Delegates will be given brief guidance on the effective delivery of the specification; ideas and approaches for the teaching and assessment of the coded Programming Project (NEA); Programming languages allowed; Iterative development process; Scoping programming project; Assessing programming project; Review candidate's sample work, Support and resources.

First Teaching: Everything you need to know to get started with OCR AS and A Level Computer Science (H046/H446): NEA best practice in delivery and assessment (Webinar)

Once you have made the decision to teach with OCR, you will have access to a wide range of support and expertise. This webinar is a one-stop shop for all your needs in understanding the specification and the mark scheme, as well as the array of resources and support that are available to support you, both in delivering AS and A Level Computer and understanding its assessment.

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Ask the Examiner: AS and A Level Computer Science (H046/H446) (Online Q&A)

This is a unique and interactive opportunity to engage with an OCR examiner on the issues that matter most to you. This webinar offers detailed and constructive feedback into where candidates struggled with the 2019 exams and how you can better support future cohorts. The webinar complements our examiners' reports and exemplar materials, and gives delegates the chance to discuss specific misconceptions or issues, as well as areas where students performed well. The session also covers other assessment-related resources and support available from OCR.

Ask the Moderator: AS and A Level Computer Science (H046/H446) (Online Q&A)

This is a unique and interactive opportunity to engage with the Moderator on the issues that matter most to you. The event will also provide pointers towards resources and other sessions that can be used to develop your understanding of the assessment in key areas.

See our range of professional development courses using 'Find an event' search tool.

We're now running all our CPD training online rather than face-to-face. Future courses will be in the form of a webinar, offering the same high-quality training as our face-to-face training. If you have any questions, please email professionaldevelopment@ocr.org.uk

Publisher materials

A/AS Level Computer Science for OCR Teaching Programming Cambridge Elevate Enhanced Edition (2 Years) (endorsed) - Cambridge University Press (CUP)

Containing a structured series of detailed programming projects designed for various abilities, this classroom resource provides a lesson-by-lesson plan for teaching different programming techniques, using engaging and relevant scenarios. Including tasks, annotated sample answers in different programming languages, common errors and solutions, each programming project can be used across several lessons for programming practice and coursework preparation. This online resource will help teachers who are new to the subject or those returning after teaching ICT, with detailed guidance on teaching programming.

Price £178.95

OCR AS and A Level Computer Science textbook (endorsed) - PG Online

The book is divided into 12 sections, each containing roughly six chapters. Each chapter covers material that can comfortably be taught in one or two lessons. It will also be a useful reference and revision guide for students throughout the A Level course. Content applicable to the A Level only is indicated throughout the textbook.

Price £30.

OCR A Level Computer Science textbook (endorsed) - Hodder

Incorporates full coverage of the skills and knowledge demanded by the examined units, with exercises to help students understand the assessment objectives and advice and examples to support them through the practical element of the course.

Price £32.99

Other resources

'Technical Topics' Presentations and Worksheets for OCR AS & A Level Computer Science by ZigZag Education

Animated presentations and follow-up worksheets designed to reinforce the mathematical and logical concepts of the OCR 2015 specification.

Price £109

Craig and Dave Videos – A Level OCR Specification

These videos are free and available on YouTube. If you are unable to use YouTube at your school, the videos are also available on the ClickView library and to buy on a USB flash drive.

Diagnostic Questions / EEDI Quizzes

A free set of self-marking questions/quizzes which allows you to sign your class up, set tests and review the results. Masses of support already built into the EEDI platform.

Issac A Level Computer Science

This is a free online learning platform for A Level students and teachers funded by the Department for Education.
Isaac Computer Science provides high-quality online learning materials for use in the classroom, for homework, and for revision. Their team of experienced teachers is writing resources to cover every topic in OCR A Level Computer Science specification as well as other awarding organisation specifications. On Isaac Computer Science, you can learn about new topics or revise previous learning, with confidence that all the content is of high quality and is relevant to your A Level exam.
Isaac Computer Science is proud to be part of the Department for Education's National Centre for Computing Education programme. Visit their website for a huge amount of useful advice, support, content, and CPD training opportunities for secondary.

Keep connected

Subject Information Update

Subject information updates are the way we let you know about changes to our qualifications, e.g. extensions or withdrawals.

If you're delivering OCR qualifications and would like to receive the latest OCR news about your subject, you can sign up for updates.

OCR A Level Computer Science Facebook Forum

OCR subject advisors' supported forum. Liaise and collaborate with teachers from across the country who are members of this forum. You could discuss the delivery/ lesson ideas, resources used and assessment preparations for your students by interacting directly.

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