

OCR. WORKING WITH TEACHERS TO MAKE ANOTHER SUCCESSFUL SCIENTIFIC PARTNERSHIP.



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(Franklin x Wilkins) (Watson x Crick) + = DNA structure



Singer = cell membrane Nicholson = structure

Horvitz = Human Genome

(Curie)² + Becquerel = radiation

ew GCSE science specifications are being introduced by all awarding bodies for first teaching in 2011. Work is under way to develop revised GCSE science specifications.

THERE ARE FOUR MAIN CHANGES TO THE SCIENCE **GCSEs AS FOLLOWS:**

- Learners must take at least 40% of the assessment of each specification in the final examination series when they certificate. This 40% terminal requirement means that there may be less flexibility in the way that learners can progress through the course than with current GCSE sciences
- Learners may only re-sit a unit assessment once. The better result for the two attempts at a unit counts. If a re-sit is part of the 40% terminal requirement, that mark must count, even if the mark is lower than that achieved at a previous sitting
- · Each specification will have a maximum of four units, and each unit must carry a minimum weighting of 20%
- Controlled assessment replaces coursework (see page 5).

WORKING IN COLLABORATION FOR BEST RESULTS:

Like many famous achievements, the best results often come through collaboration partnerships. We have been consulting widely on what the changes mean for you in order to ensure that our new GCSE science qualifications meet your needs and those of your learners.



(Vine) + (Matthews) = plate tectonics

We have been listening to your feedback on what is liked and what could be improved in our current provision, so that we can maintain those best-loved features and make appropriate changes.

We are already working hard with our publisher partners and key stakeholders to make sure that our new qualifications are well supported. Our publisher partners will produce teacher and student-friendly resources for the new specifications, which will support you with the changes and help you get the best from your learners.

KS4 SCIENCE EVENTS:

We'll be running KS4 Science events this summer, featuring GCSE sciences for 2011 and OCR Nationals in Science. We'll keep you notified of the event dates once we have these confirmed. Register for updates at www.ocr.org.uk/updates

. CANDIDATE **STYLE ANSWERS**

hroughout the consultations we have had with teachers, there have been a number of frequently asked questions:

WHAT GCSE SCIENCE QUALIFICATIONS ARE BEING **REDEVELOPED?**

The following science qualifications are being redeveloped:

- Twenty First Century Science suite, comprising GCSEs in Science, Additional Science, Biology, Chemistry and Physics
- Gateway Science suite, comprising GCSEs in Science, Additional Science, Biology, Chemistry and Physics
- GCSE Additional Applied Science (which will sit independently of the Twenty First Century Science suite)
- GCSE Environmental and Land-Based Science.

The following qualification will not be redeveloped and the last accreditation date for all awarding bodies is August 2012:

GCSE Applied Science (Double Award).



WHAT CHANGES WILL BE SEEN?

We are only making changes where they are needed. We appreciate that you may have invested heavily in resources for the current GCSE sciences.

We pride ourselves on understanding the needs of all science teachers, technicians and learners and have already embarked on one of the largest market research campaigns ever seen in OCR. You may well have been a participant in our largest-ever telephone survey in June 2009. If that is the case, we do thank you for your most valuable time in helping us to revise the specifications to meet your needs.

GCSE Additional Applied Science will no longer be part of the Twenty First Century Science suite. We will continue to offer this specification but it will sit as a stand-alone and will appeal to those offering any GCSE science gualifications.

If you have anything you would like to share with us regarding development of the new GCSEs, we would be delighted to hear from you. Email us at sciencefeedback@ocr.org.uk

WHAT IF WE WANT TO TAKE GCSE SCIENCES OVER THREE YEARS?

Starting a three-year course in 2010 will need some thought.

GCSE qualifications are intended to be taken over two years. At your centre you may adopt a more flexible approach to delivery, for example by teaching GCSE qualifications over three years, but you need to be aware of the implications of the accreditation end date to ensure that learners are entered for the appropriate GCSE specifications.

You should check details of assessment arrangements during the transition from the current specifications to the new specifications with the relevant awarding bodies and ensure that all assessments are completed in line with awarding bodies' published timelines. Awarding bodies will not be able to transfer credit from current GCSE specifications to new GCSE specifications and it will not be possible for learners to combine units from current and new specifications to make up a GCSE qualification.



The accreditation end date for current science GCSEs is August 2012. If, at your centre, you are planning to offer GCSE courses in science subjects over three years (starting from September 2010 and completing in summer 2013) you should use the Key Stage 4 Programme of Study as preparation, remembering that final specifications from OCR will be available for you to refer to in September 2010. Assessments will not be available until January 2012 at the earliest.

WHAT IS CONTROLLED ASSESSMENT?

Controlled assessment is coursework in a supervised environment, classroom or laboratory and will be replacing traditional coursework in science GCSEs from September 2011 under different levels of control. Controlled assessment has been introduced by Ofgual to address some of the issues raised in coursework reviews, such as plagiarism.

Controlled assessment will be 25% of the course for all specifications with the exceptions of Additional Applied Science and Environmental and Land-Based Science where it will be 60%.

HOW DID OFQUAL ARRIVE AT THE NEW SUBJECT CRITERIA?

New draft subject criteria were published for comment by QCDA in summer 2009. Further feedback was incorporated, with final subject criteria being published in December 2009.

Awarding bodies must meet the requirements of the subject criteria which set out knowledge, understanding, skills and assessment objectives for the specifications.

During this process, we will continue to work with teachers to produce our draft GCSE science specifications in April 2010, with final accredited specifications appearing in

September 2010. These will be ready for first teaching from September 2011.

The final subject criteria are available on the Ofqual website: www.ofqual.gov.uk/2627.aspx

WHAT DOES ALL THIS MEAN FOR YOU?

It means that from September 2011 all learners beginning a new course of study will be working towards the new specifications. You'll need to consider which science GCSEs you wish to offer your learners.

WHAT CAN YOU EXPECT FROM OCR?

We aim to make the changes as easy for you to manage as possible. We will do this by offering:

- Latest news and information on the developments and support - register for updates at www.ocr.org.uk/updates
- Guidance on which gualification is most suitable for you and your learners, and different ways of making the new qualifications work for your learners
- A package of comprehensive support.

GCSE SCIENCES TIMELINE

> **FINAL SUBJECT CRITERIA AND CONTROLLED ASSESSMENT CRITERIA PUBLISHED BY OFQUAL DEC 2009**

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YOUR CHANCE TO **TELL US WHAT YOU** THINK ABOUT THE **DRAFT SPECIFICATIONS**

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APR TO AUG 2010

FINAL SPECIFICATIONS AND SAMS AVAILABLE **SEPT 2010**

AND SAMPLE ASSESSMENT **MATERIALS (SAMS)** DEVELOPMENT **DEC 2009 TO APR 2010**

DECEMBER

DRAFT SPECIFICATIONS

FOR CENTRES APR 2010

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AWARDING BODIES SUBMIT DRAFT SPECIFICATIONS AND SAMS TO OFQUAL FOR ACCREDITATION DETAILS OF OCR DRAFT

SPECIFICATIONS AVAILABLE

FURTHER SUPPORT MATERIALS AVAILABLE **PRE-EASTER 2011**

AUGUST 2010

APRIL TO AUGUST

2010

APRIL 2010

DECEMBER

A 2009 TO

2010

FIRST UNIT ASSESSMENT **OPPORTUNITY FOR THE NEW GCSEs**

AUGUST 201

JANUARI

SEPTEMBER 2011

PREERSTER 201

TEMBER 2010

FINAL ACCREDITATION **FROM OFQUAL**

AUG 2010

JAN 2012

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FIRST **TEACHING OF THE NEW GCSEs**

SEPT 2011

ACCREDITATION **END DATE FOR CURRENT GCSE** SCIENCES AUG 2012

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GENERAL QUALIFICATIONS

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