



Design and Technology

GCSE 2012

D&T: Textiles Technology

Teachers' Handbook

J307

Version 1

September 2012

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Introduction

OCR's GCSE in GCSE Design & Technology: Textiles Technology entered first teaching in September 2009.

We have improved the quality of our GCSEs for teachers and students alike. We've made improvements in two key areas: updated and relevant content and a focus on developing students' personal, learning and thinking skills.

In addition and in response to reforms announced by the Government and in response to Ofqual mandated changes to GCSEs, unitised assessment of this qualification is being replaced by linear assessment from September 2012. This means that candidates commencing a two year course from September 2012 will take all of their GCSE units at the end of the course in June 2014.

The main changes are:

- Controlled assessment and examinations will be summative
- Examinations provide opportunity for extended writing and more varied question types
- All GCSEs will meet the requirements of the Equality Act.

OCR offers a range of support materials, developed following extensive research and consultation with teachers. We've designed them to save you time when preparing for the specification and to support you while teaching them.

It is important to make the point that this Teachers' Handbook plays a secondary role to the specifications themselves. The GCSE Design & Technology: Textiles Technology specification is the document on which assessment is based: it specifies what content and skills need to be covered. At all times therefore, the Teachers' Handbook should be read in conjunction with the Specification. If clarification on a particular point is sought, then that clarification must be found in the Specification itself.

Subject specific guidance

This document is designed to support delivery of GCSE Design and Technology: Textiles Technology (J307). We hope you will find it useful in planning your delivery and assessment opportunities.

There are three units available for Design and Technology: Textiles Technology. They are:

³⁵₁₇ Unit A571: Introduction to designing and making

³⁵₁₇ Unit A573: Making quality products

³⁵₁₇ Unit A575: Sustainability and the technical aspects of designing and making

These documents do not seek to prescribe how the subject should be delivered. They merely seek to show the breadth and range of learning opportunities within this subject area. We hope centres will use these as a starting point for developing inspiring and innovative courses that meet the needs of their students.

Unit A575 Sustainability and the technical aspects of designing and making

This unit aims to develop a candidate's knowledge and understanding of sustainability, environmental concerns, cultural, moral and social issues. Candidates will look at how Design and Technology has evolved through examination of the products from the past and present. Candidates need to consider how future designs will impact on the world in which we live. They will need to study examples of both old and new products in order that they gain awareness and understanding of recent trends and innovations in design and production, labelling, packaging and the impact that the design of such products is having on the environment, society and the economy.

Candidates will need to consider how future designs/ products will impact on the world in which we live. By looking at old and new products candidates will gain awareness and understanding of trends and innovations in design and manufacture, labeling, packaging and the impact that the design of such products is having on the environment, society and the economy.

Moral, cultural, economic, environmental and sustainability issues are inherent in design and technology.

Candidates will also need a knowledge and understanding of:

- Designing and making quality manufactured products
- Planning production with consideration of the use of time and resources
- Performance characteristics of different materials including 'Smart' and modern materials
- Processes and techniques used to make quality manufactured products, both decorative and functional.
- Health and Safety issues

The paper consists of questions that focus on sustainability and technical aspects of design and making.

80 marks

40% of the total GCSE marks

1 hour 30 minutes written paper

Section A consists of 15 short answer questions and one question which may involve sketching, annotation, short sentences and extended writing. This section will focus on sustainability, product analysis and design.

Section B consists of three questions which may involve sketching, annotation, short sentences and extended writing. This section will focus on the technical aspects of working with materials, tools and equipment and design of products.

This unit will be externally assessed.

Banded Mark Scheme

It is to be expected that in the paper some questions will require detailed written responses and will be answered through a banded mark scheme. Banded mark schemes do require a more detailed and technical answer that uses the correct subject specialist terminology and also takes into account the quality of written communication. The questions will have an asterisk(*) to show this.

For example:

Level 1 (1-2 marks)

A basic analysis, showing some understanding. There will be little or no use of specialist terms. Answers may be ambiguous or disorganised. Errors of grammar, punctuation and spelling may be intrusive.

Level 2 (3-4 marks)

Adequate analysis, showing understanding. Candidates can provide a description using some specialist terminology although these may not be always used appropriately. The information will be presented for the most part in a structured format. There may be occasional errors in spelling, grammar and punctuation.

Level 3 (5-6 marks)

Thorough analysis, showing clear understanding. Specialist terms will be used appropriately and correctly. The information will be presented in a structured format. The candidate will demonstrate the accurate use of spelling, punctuation and grammar.

0 marks = no response worthy of credit.

Resources

A resource list for teachers

Carey Clarkson, Jayne March and Joy Palmer GCSE Textiles Technology for OCR
Teacher's Resource File ISBN 0-435-41667-7

Sarah E Braddock and Marie O'Mahony Techno Textiles – Revolutionary Fabrics for Fashion and Design ISBN 0-500-28096-7

Sarah E Braddock and Marie O'Mahony Techno Textiles 2 – Revolutionary Fabrics for Fashion and Design ISBN 0-500-28684-5

Sarah E Braddock and Marie O'Mahony Sportstech – Revolutionary Fabrics, Fashion & Design ISBN 0-500-51086-5

Clothing Technology – Tekot International ISBN – 3-8085-6221-8

Lesley Cresswell Textiles at the Cutting Edge ISBN – 1-899527-17-6

Alastair Fuad-Luke The Eco-Design Handbook ISBN – 0-500-28521-7

A resource list for students

Carey Clarkson, Jayne March and Joy Palmer GCSE Textiles Technology for OCR
Student Book ISBN 0-435-41666-9
Teacher's Resource File ISBN 0-435-41667-7
Revision Guide

Jane Down, Textiles Technology to GCSE ISBN 0-19-832813-3

Rose Sinclair and Sue Morgan, GCSE Design & Technology for AQA Textiles Technology
ISBN 978-0-435413-49-1
Textiles Technology Teacher's Resource File ISBN 978-0-435413-50-7

Alison Bartle & Bernie O'Connor Design Technology – Textiles Technology ISBN 1-873929-65-X

Hazel King, Trends in Textiles Technology
Set of 6 books, revised and updated by Carey Clarkson.

Dyes and Decoration ISBN 978-0-431-99017-0
Design, Cut and Shape ISBN 978-0-431-99016-3
Fabric Types ISBN 978-0-431-99019-4
Fibre to Fabric ISBN 978-0-431-99018-7
Fashion ISBN 978-0-431-99015-6
The Clothing Industry ISBN 978-0-431-99014-9

There is also a new textbook that has been written to support the new specification. It is published by Hodder.

DVD List

Textile DVDs from 'Classroom Video'
Classroom video Limited
St Thomas Court
Thomas Lane
Redcliffe
Bristol
BS1 6JG

Telephone 0870 850 8256
Fax 0870 850 8424
Email: orders@classroomvideo.co.uk

www.classroomvideo.co.uk

All have Teacher's notes included and are 24 – 30 minutes long.

Introducing Textiles
CAD CAM in Textiles Manufacturing
Smart Textiles
Nylon – Fibre to Fabric
A Textile World

Pumpkin Television Limited
21 Winsor Road
St Andrews
Bristol
BS6 5BW

Mass Production Systems and Techniques
Printing and Dyeing
Testing Textiles
CAD/CAM

Teachers notes, script and student activities included.

Other forms of Support

In order to help you implement the new GCSE Design and Technology: Textiles Technology Specification effectively, OCR offers a comprehensive package of support. This includes:

Published Resources

OCR offers centres a wealth of quality published support with a fantastic choice of 'Official Publisher Partner' and 'Approved Publication' resources, all endorsed by OCR for use with OCR specifications.

Publisher partners

OCR works in close collaboration with three Publisher Partners; Hodder Education, Heinemann and Oxford University Press (OUP) to ensure centres have access to:

- ³⁵₁₇ Better published support, available when you need it, tailored to OCR specifications
- ³⁵₁₇ Quality resources produced in consultation with OCR subject teams, which are linked to OCR's teacher support materials
- ³⁵₁₇ More resources for specifications with lower candidate entries
- ³⁵₁₇ Materials that are subject to a thorough quality assurance process to achieve endorsement

Hodder Education is the publisher partner for OCR GCSE Design and Technology: Textiles Technology.



Hodder Education has produced the following resources for OCR GCSE Design and Technology: Textiles:

OCR Textiles Technology for GCSE Student's Book –
Jayne March, Maria James, Carey Clarkson, Editor: Bob White
ISBN: 978 0340 98199 3
Published: 27/03/2009

OCR Design and Technology for GCSE Dynamic Learning Network Edition CD-ROM
ISBN: 978 0340 98203 7
Published: April 2009

Approved publications

OCR still endorses other publisher materials, which undergo a thorough quality assurance process to achieve endorsement. By offering a choice of endorsed materials, centres can be assured of quality support for all OCR qualifications.



Endorsement

OCR endorses a range of publisher materials to provide quality support for centres delivering its qualifications. You can be confident that materials branded with OCR's "Official Publishing Partner" or "Approved publication" logos have undergone a thorough quality assurance process to achieve endorsement. All responsibility for the content of the publisher's materials rests with the publisher.

These endorsements do not mean that the materials are the only suitable resources available or necessary to achieve an OCR qualification. Any resource lists which are produced by OCR shall include a range of appropriate texts.

Professional Development

The 2012-13 OCR Professional Development Programme offers more accessible and more cost effective training, with the same valued content that you expect from us.

At OCR, we are constantly looking for ways in which we can improve the support we offer to teachers. Most recently we have been considering the increasing challenges that schools face in releasing teachers for INSET, and how OCR can make its professional development programme more accessible and convenient for all.

From September 2012, our new improved programme will include:

- FREE online professional development units available when and where you want them
- FREE live web broadcasts of professional development events
- FREE face to face training for GCSE controlled assessment and GCE coursework
- A series of 'not to be missed' premier professional development events.

For more information, please email training@ocr.org.uk or visit www.ocr.org.uk/training.

OCR Social

Visit our social media site (<http://www.social.ocr.org.uk>). By registering you will have free access to a dedicated platform where teachers can engage with each other - and OCR - to share best practice, offer guidance and access a range of support materials produced by other teachers; such as lesson plans, presentations, videos and links to other helpful sites.

Interchange

OCR Interchange has been developed to help you to carry out day to day administration functions online, quickly and easily. The site allows you to register and enter candidates online. In addition, you can gain immediate and free access to candidate information at your convenience. Sign up at <https://interchange.ocr.org.uk>

Frequently Asked Questions

Unit A571: Introduction to designing and making

Is this a compulsory unit?

This unit is compulsory for a GCSE in Design and Technology: Textiles Technology (J307).

What is this unit worth?

This unit is worth 30% of the GCSE in Design and Technology: Textiles Technology (J307) qualification.

What is the entry code for this unit?

The entry code for this unit is A571.

How is this unit assessed?

This unit is assessed by a 20 hour controlled assessment task. This unit is internally marked and externally moderated. Teachers should use the published marking criteria for Unit A571. Moderation takes place postally or via the OCR Repository.

Will candidates be able to re-enter units?

Yes. Controlled assessment units can be carried forward with the moderator mark from one session to the next i.e. June 2014 to June 2015. There is a separate 'carry over' code to re-enter the unit.

Is there a text book for this unit?

Yes. The recommended text book is GCSE Design and Technology: Textiles Technology published by Hodder. This book covers all three units of the GCSE in Design and Technology: Textiles Technology (J307).

Unit A573: Making quality products

Is this a compulsory unit?

This unit is compulsory for a GCSE in Design and Technology: Textiles Technology (J307).

What is this unit worth?

This unit is worth 30% of the GCSE in Design and Technology: Textiles Technology (J307) qualification.

What is the entry code for this unit?

The entry code for this unit is A573.

How is this unit assessed?

This unit is assessed by a 20 hour controlled assessment task.

Can students produce designs on a computer?

Yes. It is expected that candidates will use computer based methods and traditional hand skills to generate design proposals.

Is this unit assessed by a visiting moderator?

No. Candidates are required to take a minimum of two clear photographs of the product, which must be included in the design folder. The moderator will then request a sample of folders. Moderation takes place via the post or the OCR Repository.

Unit A575: Sustainability and the technical aspects of designing and making

Is this a compulsory unit?

This unit is compulsory for a GCSE in Design and Technology: Textiles Technology (J307).

What is this unit worth?

This unit is worth 40% of the GCSE in Design and Technology: Textiles Technology (J307) qualification.

What is the entry code for this unit?

The entry code for this unit is A575.

How is this unit assessed?

This unit is assessed by a 90 minute written test. The test is externally set and marked.

What is the structure of the test?

The test is divided into sections A and B and is worth 80 marks. Section A consists of fifteen short answer questions and one longer question. Section B consists of three questions requiring answers that may involve sketching, annotation, short sentences or more extended writing.

Is the test tiered?

No. All candidates take the same test.

Are exemplar test questions available?

Yes. Exemplar questions are available on the OCR website and past test papers will also be made available on the website.

Is there a text book for this unit?

Yes. The recommended text book is GCSE Design and Technology: Textiles Technology published by Hodder. This book covers all three units of the GCSE in Design and Technology: Graphics (J307) qualification.

Do candidates have any choice of questions?

No. All questions must be attempted.

Contact us

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