

SYLLABUS

**Cambridge International AS and A Level
Design and Textiles**

9631

For examination in November 2016

Changes to syllabus for 2016

This syllabus has been updated, but there are no significant changes.

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Contents

1. Introduction	2
1.1 Why choose Cambridge?	
1.2 Why choose Cambridge International AS and A Level?	
1.3 Why choose Cambridge International AS and A Level Design and Textiles?	
1.4 Cambridge AICE (Advanced International Certificate of Education) Diploma	
1.5 How can I find out more?	
2. Teacher support	6
2.1 Support materials	
3. Assessment at a glance	7
4. Syllabus aims and assessment objectives	9
4.1 Aims	
4.2 Assessment objectives	
4.3 Notes	
4.4 Cambridge International AS Level	
4.5 Cambridge International A Level	
5. Practical Test (Paper 2)	16
5.1 Introduction	
5.2 Specification grid for Cambridge International AS Level practical test (Paper 2)	
5.3 Criteria for assessing the Cambridge International AS Level practical test (Paper 2)	
6. Cambridge International A Level coursework (Paper 4)	25
6.1 Introduction	
6.2 Submission of Coursework folders	
6.3 Marking	
6.4 Authentication	
6.5 Specification grid for Cambridge International A Level coursework (Paper 4)	
6.6 Criteria for assessing Cambridge International A Level coursework (Paper 4)	
7. Glossary of terms	33
8. Resource list	34
8.1 Further information for teachers	
8.2 Reading list – for AS and A Level	
8.3 Online resources	
8.4 Dress patterns (modern, traditional, cultural and historical) and textiles	
9. Appendix	38
9.1 Appendix 1: Exemplar material and templates for the practical test	
9.2 Appendix 2: Suggested topics for Cambridge International A Level coursework and marking templates	
9.3 Appendix 3: Administration of Coursework (Paper 4)	
10. Other information	49

1. Introduction

1.1 Why choose Cambridge?

Recognition

Cambridge International Examinations is the world's largest provider of international education programmes and qualifications for learners aged 5 to 19. We are part of Cambridge Assessment, a department of the University of Cambridge, trusted for excellence in education. Our qualifications are recognised by the world's universities and employers.

Cambridge International AS and A Levels are recognised around the world by schools, universities and employers. The qualifications are accepted as proof of academic ability for entry to universities worldwide, though some courses do require specific subjects.

Cambridge International A Levels typically take two years to complete and offer a flexible course of study that gives learners the freedom to select subjects that are right for them.

Cambridge International AS Levels often represent the first half of an A Level course but may also be taken as a freestanding qualification. The content and difficulty of a Cambridge International AS Level examination is equivalent to the first half of a corresponding Cambridge International A Level. Cambridge AS Levels are accepted in all UK universities and carry half the weighting of an A Level. University course credit and advanced standing is often available for Cambridge International AS and A Levels in countries such as the USA and Canada.

Learn more at www.cie.org.uk/recognition

Excellence in education

Our mission is to deliver world-class international education through the provision of high-quality curricula, assessment and services.

More than 9000 schools are part of our Cambridge learning community. We support teachers in over 160 countries who offer their learners an international education based on our curricula and leading to our qualifications. Every year, thousands of learners use Cambridge qualifications to gain places at universities around the world.

Our syllabuses are reviewed and updated regularly so that they reflect the latest thinking of international experts and practitioners and take account of the different national contexts in which they are taught.

Cambridge programmes and qualifications are designed to support learners in becoming:

- **confident** in working with information and ideas – their own and those of others
- **responsible** for themselves, responsive to and respectful of others
- **reflective** as learners, developing their ability to learn
- **innovative** and equipped for new and future challenges
- **engaged** intellectually and socially, ready to make a difference.

Support for teachers

A wide range of support materials and resources is available for teachers and learners in Cambridge schools. Resources suit a variety of teaching methods in different international contexts. Through subject discussion forums and training, teachers can access the expert advice they need for teaching our qualifications. More details can be found in Section 2 of this syllabus and at **www.cie.org.uk/teachers**

Support for exams officers

Exams officers can trust in reliable, efficient administration of exam entries and excellent personal support from our customer services. Learn more at **www.cie.org.uk/examsOfficers**

Not-for-profit, part of the University of Cambridge

We are a not-for-profit organisation where the needs of the teachers and learners are at the core of what we do. We continually invest in educational research and respond to feedback from our customers in order to improve our qualifications, products and services.

Our systems for managing the provision of international qualifications and education programmes for learners aged 5 to 19 are certified as meeting the internationally recognised standard for quality management, ISO 9001:2008. Learn more at **www.cie.org.uk/ISO9001**

1.2 Why choose Cambridge International AS and A Level?

Cambridge International AS and A Levels are international in outlook, but retain a local relevance. The syllabuses provide opportunities for contextualised learning and the content has been created to suit a wide variety of schools, avoid cultural bias and develop essential lifelong skills, including creative thinking and problem-solving.

Our aim is to balance knowledge, understanding and skills in our programmes and qualifications to enable candidates to become effective learners and to provide a solid foundation for their continuing educational journey. Cambridge International AS and A Levels give learners building blocks for an individualised curriculum that develops their knowledge, understanding and skills.

Schools can offer almost any combination of 60 subjects, and learners can specialise or study a range of subjects, ensuring a breadth of knowledge. Giving learners the power to choose helps motivate them throughout their studies.

Through our professional development courses and our support materials for Cambridge International AS and A Levels, we provide the tools to enable teachers to prepare learners to the best of their ability and work with us in the pursuit of excellence in education.

Cambridge International AS and A Levels have a proven reputation for preparing learners well for university, employment and life. They help develop the in-depth subject knowledge and understanding which are so important to universities and employers.

Learners studying Cambridge International AS and A Levels have the opportunities to:

- acquire an in-depth subject knowledge
- develop independent thinking skills
- apply knowledge and understanding to new as well as familiar situations
- handle and evaluate different types of information sources
- think logically and present ordered and coherent arguments
- make judgements, recommendations and decisions
- present reasoned explanations, understand implications and communicate them clearly and logically
- work and communicate in English.

Guided learning hours

Cambridge International A Level syllabuses are designed on the assumption that learners have about 360 guided learning hours per subject over the duration of the course. Cambridge International AS Level syllabuses are designed on the assumption that learners have about 180 guided learning hours per subject over the duration of the course. This is for guidance only and the number of hours required to gain the qualification may vary according to local curricular practice and the learners' prior experience of the subject.

1.3 Why choose Cambridge International AS and A Level Design and Textiles?

Cambridge International AS and A Level Design and Textiles is accepted by universities and employers as proof of knowledge and understanding of design and textiles. Successful candidates gain lifelong skills, including:

- an awareness of how textiles and the user interrelate in a changing multicultural and technological society
- knowledge of a range of textile resources and products and the processes involved in working with them
- the ability to make informed decisions
- the ability to solve problems easily
- an excellent foundation for studies beyond Cambridge International A Level in design and textiles, in further or higher education, and for professional courses.

Prior learning

Candidates beginning this course are not expected to have studied Design and Textiles previously.

Progression

Cambridge International A Level Design and Textiles provides a suitable foundation for the study of Design and Textiles or related courses in higher education. Equally it is suitable for candidates intending to pursue careers or further study in Design or Textiles, or as part of a course of general education.

Cambridge International AS Level Design and Textiles constitutes the first half of the Cambridge International A Level course in Design and Textiles and therefore provides a suitable foundation for the study of Design and Textiles at Cambridge International A Level and thence for related courses in higher education.

Depending on local university entrance requirements, it may permit or assist progression directly to university courses in Design or Textiles or some other subjects. It is also suitable for candidates intending to pursue careers or further study in Design or Textiles, or as part of a course of general education.

1.4 Cambridge AICE (Advanced International Certificate of Education) Diploma

Cambridge AICE Diploma is the group award of the Cambridge International AS and A Level. It gives schools the opportunity to benefit from offering a broad and balanced curriculum by recognising the achievements of candidates who pass examinations in three different curriculum groups:

- Mathematics and Science (Group 1)
- Languages (Group 2)
- Arts and Humanities (Group 3)

A Cambridge International A Level counts as a double-credit qualification and a Cambridge International AS Level counts as a single-credit qualification within the Cambridge AICE Diploma award framework.

To be considered for an AICE Diploma, a candidate must earn the equivalent of six credits by passing a combination of examinations at either double credit or single credit, with at least one course coming from each of the three curriculum groups.

Design and Textiles (9631) is in Group 3, Arts and Humanities.

Credits gained from Cambridge AS Level Global Perspectives (8987) or Cambridge Pre-U Global Perspectives and Independent Research (9766) can be counted towards the Cambridge AICE Diploma, but candidates must also gain at least one credit from each of the three curriculum groups to be eligible for the award.

Learn more about the Cambridge AICE Diploma at www.cie.org.uk/qualifications/academic/uppersec/aice

The Cambridge AICE Diploma is awarded from examinations administered in the June and November series each year.

1.5 How can I find out more?

If you are already a Cambridge school

You can make entries for this qualification through your usual channels. If you have any questions, please contact us at info@cie.org.uk

If you are not yet a Cambridge school

Learn about the benefits of becoming a Cambridge school at www.cie.org.uk/startcambridge. Email us at info@cie.org.uk to find out how your organisation can register to become a Cambridge school.

2. Teacher support

2.1 Support materials

Cambridge syllabuses, past question papers and examiner reports to cover the last examination series are on the *Syllabus and Support Materials* DVD, which we send to all Cambridge schools.

You can also go to our public website at **www.cie.org.uk/alevel** to download current and future syllabuses together with specimen papers or past question papers and examiner reports from one series.

For teachers at registered Cambridge schools a range of additional support materials for specific syllabuses is available from Teacher Support, our secure online support for Cambridge teachers. Go to **<http://teachers.cie.org.uk>** (username and password required).

2.2 Resource lists

We work with publishers providing a range of resources for our syllabuses including textbooks, websites, CDs, etc. Any endorsed, recommended and suggested resources are listed on both our public website and on Teacher Support.

The resource lists can be filtered to show all resources or just those which are endorsed or recommended by Cambridge. Resources endorsed by Cambridge go through a detailed quality assurance process and are written to align closely with the Cambridge syllabus they support.

2.3 Training

We offer a range of support activities for teachers to ensure they have the relevant knowledge and skills to deliver our qualifications. See **www.cie.org.uk/events** for further information.

3. Assessment at a glance

- Candidates for Advanced Subsidiary (AS) certification take Papers 1 and 2 in a single exam series.
- Candidates who already have AS certification and wish to achieve the full Advanced Level qualification may carry their AS marks forward and take just Papers 3 and 4 in the exam series in which they require certification.
- Candidates taking the complete Advanced Level qualification take all four papers in a single exam series.

Paper 1 Fibres, Fabrics and Design		2 hours
This paper is in two sections. In Section A, candidates answer two compulsory structured/data response questions. In Section B, candidates answer one structured essay question from a choice of two. There is a total of 75 marks for the paper.		
50% of total marks at AS Level		25% of marks at A Level
Paper 2 Practical		7 hours
Candidates plan and make up a garment, for a total of 100 marks. See Section 5 in this syllabus booklet for further details.		
50% of total marks at AS Level		25% of marks at A Level
Paper 3 Textile Applications and Textile Technology		2 hours
This paper is in two sections. In Section A, candidates answer two compulsory questions that test their understanding of the connections between the different elements of the subject, in particular the interrelationship between textiles and the user. In Section B, candidates answer two of three essay type questions. There is a total of 100 marks for the paper.		
		25% of marks at A Level
Paper 4 Coursework		
Candidates complete coursework for a total of 100 marks. See Section 6 for further details.		
		25% of marks at A Level

Availability

This syllabus is examined in the November examination series.

This syllabus is not available to private candidates.

Detailed timetables are available from **www.cie.org.uk/examsofficers**

Centres in the UK that receive government funding are advised to consult the Cambridge website **www.cie.org.uk** for the latest information before beginning to teach this syllabus.

Combining this with other syllabuses

Candidates can combine this syllabus in an examination series with any other Cambridge syllabus, except:

- syllabuses with the same title at the same level
- 6050 Cambridge O Level Fashion and Fabrics
- 6130 Cambridge O Level Fashion and Textiles

4. Syllabus aims and assessment objectives

The Design and Textiles syllabus encourages candidates to develop an awareness of how textiles and users interrelate and provides the chance to study a range of textile resources and products. Candidates study the subject in the context of a contemporary, changing and multicultural society. They are given the opportunity to explore the content through a range of approaches. The syllabus allows Centres to be flexible in their approach to the coursework in both AS and A Level, using creative, design-and-make, practical application and investigative methods. The subject content is carefully defined and it is intended to be relevant and motivating to both AS and A Level candidates.

4.1 Aims

A course based on this syllabus should aim to:

- develop awareness of how textiles and users interrelate in a changing multicultural and technological society;
- help candidates to develop the ability to make informed decisions;
- encourage candidates to have an investigative approach to study, which may include problem solving;
- provide an experience of relevant materials and processes that will inform the candidates' decisions;
- create awareness of design and textiles as an applied field of study leading to further and higher education and a range of career options.

4.2 Assessment objectives

At Cambridge International AS Level, candidates should be able to show their ability to:

- identify and recall knowledge and understanding;
- analyse, choose and apply relevant knowledge by organising and presenting information clearly and logically;
- make informed and rational choices;
- carry out a course of action using a range of relevant, appropriate and transferable skills and resources;
- critically evaluate acquired knowledge, understanding and the decision-making process.

At Cambridge International A Level, candidates should also be able to show their ability to:

- carry out research
- present the results of that research and undertake a critical analysis of the results.

4.3 Notes

- 1 Centres should emphasise the scientific and/or artistic aspect of the subject throughout the teaching of the practical and the coursework.
- 2 When the work is marked, Cambridge takes into account suitability of material and designs, as well as workmanship. The examiners expect to see evidence of skills in hand sewing and competence in using a sewing machine.
- 3 Centres must send all practical tests (including Plans of Action and Mark Sheets) for marking immediately after the practical exam, which should take place before 31 October in the year of the examination.
- 4 Centres must send all coursework (including garments, worked items, folders and mark sheets) for marking by 31 October in the year of the examination.
- 5 In the written papers, Cambridge differentiates between candidates by setting questions which are designed to assess candidates at their appropriate levels of ability and which allow all candidates to demonstrate what they know, understand and can do.
- 6 In coursework, Cambridge differentiates between candidates by task and by outcome. Candidates should carry out assignments that enable them to display positive achievement. For further details on coursework see Section 6.

4.4 Cambridge International AS Level

1 Fibres and Fabrics

In this module, candidates should develop a critical appreciation of the complexity of the relationships between the performance characteristics and use of fibres and fabrics in different contexts. Candidates have the opportunity to develop an understanding of the content through a range of practical activities, including experimental and investigative tasks. Candidates must complete a Practical Test. For further information on the Practical Test see Section 5.

Candidates should have an understanding of:

1.1 Fibres

Natural

- (a) the sources of natural fibres
- (b) cellulosic fibres – cotton, flax and jute
- (c) protein fibres – wool, silk (wild and cultivated) and hair fibres

Man-made

- (a) the range of regenerated cellulose fibres, to include viscose, modal, acetate, triacetate, lyocell
- (b) the range of synthetic polymer fibres, to include polyamide, polyester, acrylic, modacrylic, aramid, elastane, chlorofibre
- (c) new developments in fibre technology

1.2 Performance characteristics

For each fibre the following must be considered and related to the end use:

- (a) the variation of fibre length and fineness
- (b) the levels of moisture absorption of fibres and the relationship to comfort, shrinkage and ease of care
- (c) the tensile strength, extensibility and elastic recovery in both dry and wet states
- (d) the flammability of fibres
- (e) the differentiation of fibres using microscopic examination and standard burning tests

1.3 Woven fabric construction

- (a) the basic methods of fabric construction, to include weaving, knitting and non-woven
- (b) the systems/methods of weaving, to include sectional diagrams of plain, twill, satin, sateen, dobby and Jacquard weaves
- (c) further methods of weaving and sectional diagrams of cut and loop-pile fabrics, to include velvet, velveteen, corduroy and terry towelling
- (d) the effect of these weaves on the performance characteristics of the fabric
- (e) the additional effects of fibre composition and yarn types on the performance characteristics of woven fabrics

1.4 Knitted fabric construction

- (a) the principles of weft and warp knitting, to include needle types and actions, for example latch, bearded and compound needles
- (b) the structure of weft knitted fabrics, to include plain, 1 x 1 rib, 1 x 1 purl, interlock
- (c) the structure of warp knitted fabrics, to include tricot, locknit and raschel
- (d) the difference in performance characteristics of warp and weft knitted fabrics in terms of appearance, structure, stretch characteristics, fibre composition, yarn suitability and end uses

1.5 Non-woven fabric construction

- (a) the types of manufactured non-woven fabrics, to include needle-punched, stitch-bonded, adhesive-bonded fibre, thermo-bonded, spun-bonded and felt
- (b) performance characteristics and end uses of non-woven fabrics
- (c) the comparative performance characteristics of woven, knitted and non-woven (bonded) fabrics

2 Design

In this module, candidates should develop a critical appreciation of design through the study of contemporary, historical and multicultural design sources and processes. They will use this knowledge as the basis for exploring a range of traditional, contemporary and experimental textile processes and techniques later in the course at Cambridge International A Level.

Candidates should have an understanding of:

2.1 Design principles

- (a) the aesthetic qualities that contribute to good design of textile products: for example shape, balance, line, proportion, rhythm, style, colour, fabric, texture, pattern and visual appeal
- (b) the application of these qualities to a textile design
- (c) functional design
- (d) the development of designs for creative textile applications from natural and man-made sources
- (e) the use of pattern and decoration from historical sources as a starting point for a design
- (f) the influence of cultural heritage on textile design
- (g) the influence of computer-aided design (CAD) to create or develop design ideas

2.2 Contemporary fashion

- (a) the concept of fashion
- (b) the influences that determine contemporary fashion
- (c) fashion cycles, to include fads, classic and standard trends
- (d) fashion revivals, to include retrospective fashions
- (e) why fashion changes
- (f) the merits of a range of textile outlets, to include designer shops, department stores, high street retailers, franchises, discount stores, mail order, markets and electronic developments in retailing (for example, e-commerce)

2.3 Clothing manufacturing processes (home-based and industrial)

- (a) manufacturing methods, to include one-off (job), batch and mass production
- (b) the stages involved in pattern-making, to include pattern construction, sizing, grading, lay planning, types of lay plans, spreading and cutting processes
- (c) adaptation of commercial patterns or pattern alteration
- (d) the methods of marking and other pre-sewing processes
- (e) the use of hand and machine processes
- (f) functional processes, to include joinings/seams, closures, openings and edge finishes
- (g) product assembly, to include sewing and finishing
- (h) pressing and steaming methods and other product-finishing processes

2.4 Practical Test

See Section 5 for full details.

4.5 Cambridge International A Level

Through the Cambridge International A Level content, candidates are given the opportunity for creative, investigative and analytical approaches to the study of textiles, design and technology. Candidates must also create a coursework folder. In addition to Modules 1 and 2, candidates for Cambridge International A Level also study the following modules:

3 Textile Applications

In this module, candidates should develop a critical appreciation of textiles and their applications in different contexts.

Candidates should have an understanding of:

3.1 Fitness for purpose

- (a) the relevant factors to consider when selecting fabrics for specific textile applications, to include children's clothing, clothing for the disabled, workwear, sports, leisure and outdoor wear
- (b) the finishes that alter fabric appearance: for example, calendering, embossing, glazing, delustering
- (c) the finishes that alter fabric handle, drape and texture, to include starching, napping, brushing
- (d) the performance finishes, to include water-repellent, soil release, abrasion resist, flame retardant, anti-static, crease resist, durable press, minimum care
- (e) the value of fabric finishes for specific end uses

3.2 Creative techniques

- (a) techniques using fibres, yarns and fabrics
- (b) techniques using fabric manipulation: for example appliqué, mola, soft sculpture
- (c) a range of traditional and creative approaches to hand embroidery processes, using a variety of materials
- (d) the use of a sewing machine for free machine stitching
- (e) a range of machine embroidery techniques, to include the use of vanishing fabrics
- (f) other surface texture decorative techniques from different cultures: for example beading, raised embroidery, shisha, kantha
- (g) experimental techniques to create texture and surface pattern
- (h) the appropriate use of a wide range of materials in creative textile tasks

3.3 Designing to specification

- (a) the importance of designing to specification
- (b) safety specification standards for textiles
- (c) estimation of textile materials in relation to the design task
- (d) specification of textile materials to complete a design task

3.4 Application of colour

- (a) colour theory, to include primary, secondary, tertiary colour and colour mixing
- (b) the preparation of fibres, yarns and fabrics for dyeing
- (c) the sources and use of natural dyestuffs
- (d) the use of synthetic fibre reactive dyes with fibres, yarns and fabrics
- (e) the range of decorative effects that can be achieved with the use of dyes: for example batik, tie dye, space dyeing, other resists, discharge dyeing
- (f) the safe handling and dispersal of dyestuffs, mordants and other assistants to the dye process
- (g) the range of craft printing processes
- (h) the range of creative effects that can be achieved through the use of fabric paints: for example silk-painting techniques, use of guttas, sponging, stencilling, airbrushing

3.5 Yarns

- (a) the basic methods of making fibres into yarns, to include staple fibre yarns and filament yarns
- (b) the performance characteristics of staple fibre yarns and filament yarns
- (c) methods of production of speciality yarns and their uses

3.6 Environmental Issues

- (a) the factors that cause physical wear in textiles, to include snagging, abrasion, pilling, felting
- (b) the effects of environmental factors on the wear of textile products, to include soiling, pollution and sunlight
- (c) environmental issues related to the textile industry
- (d) the need for Eco-labelling
- (e) the development of environmentally friendly fibres: for example Tencel (Lyocell), self coloured cotton
- (f) opportunities for recycling textiles

4 Textile Technology

In this module, candidates should develop a critical understanding and practical experience of textile technology from product concept to end product. The content provides opportunities for developing the candidate's coursework folder.

Candidates should have an understanding of:

4.1 Product design and development

- (a) the process of design and product development, to include the origin of style, the development of samples and the attainment of commercial products
- (b) the relationship between the aesthetic and technological requirements of the product
- (c) the application of appropriate criteria and personal judgements in the appraisal of a textile product
- (d) the importance of market research and consumer testing

4.2 Selection of materials

- (a) further studies in the performance characteristics of fabrics, relevant to individual coursework
- (b) the complexity of the factors which affect the selection of fibres, fabrics and yarns for a particular specification, for example aesthetic, performance, costs
- (c) determination of the product specification, to include fibre, yarn and fabric, product and manufacturing specification

4.3 Construction of textile products

- (a) experience of a range of textile construction processes, to include joining, shaping, closures and finishing
- (b) stitching techniques, to include lockstitch, chain stitch and overlocking
- (c) the need to consider relevant performance characteristics of construction processes
- (d) the use of additional materials to enhance the quality of the finished products
- (e) surface decoration processes, to include machine embroidery and application of trimming
- (f) risk assessment and safety in the workplace

4.4 Care of textiles

- (a) the principles and action of dry cleaning
- (b) the value of the care labelling system, to include the International Textile Care Labelling Code (ITCLC)

4.5 Cambridge International A Level Coursework

See Section 6 for full details.

5. Practical Test (Paper 2)

5.1 Introduction

The practical test is set by a teacher at the Centre and is a task based on making up a garment that allows candidates to show planning and practical techniques and skills. The Centre should give candidates copies of the task sheet and a paper pattern chosen by the Centre.

Instructions for the **preparation** of the **Practical Test Task Sheet** and for the conduct of the practical exam session are given later in this section. Please make sure that these instructions are followed.

Candidate Instructions – the syllabus contains a blank copy of the Practical Test Task Sheet for candidates (see page 41). Centres should use this as a template for their candidates.

Practical Test Mark Sheet – the syllabus includes a blank copy of this sheet (see page 44). Centres should use this as a template for recording the work of candidates.

Cambridge will mark the practical task. We **encourage teachers to comment on the candidates' work** by completing a mark sheet for each candidate, which should be sent to Cambridge with the practical work. For examples of practical tasks for Cambridge International AS Level, see the Appendix (Section 9.1).

All the work of **each** candidate should be collated (Practical Test Task Sheet, written answers and paperwork, garment, paper pattern).

Candidates are expected to show that they can apply the knowledge and understanding gained in Module 1 (Fibres and Fabrics) and Module 2 (Design) to the practical test. The requirements are listed below. The marking criteria (see Section 5.3) give further details of the requirements.

1	Task analysis and planning • interpretation of requirements to complete the prescribed test • consideration of the suitability of the textiles selected	1 hour 30 minutes
2	Preparation and pattern alteration • adaptation or alteration of the commercial pattern as specified • completion of a production plan and order of work/time plan • laying, cutting and marking pattern pieces • importance of initial assembly and assessment of style and fit	2 hours
3	Implementation – Carrying out planned test • time management and techniques used in garment construction	3 hours
4	Evaluation • evaluation of the results achieved	30 minutes
Total		7 hours

These instructions are for the Centre and teacher/supervisor ONLY

Practical Test 9631/2

PREPARATION OF THE PRACTICAL TEST TASK – INSTRUCTIONS

Assessment Criteria

- (1) Task analysis and planning (one week before test date)
- (2) Preparation and pattern alteration (prior to exam session)
- (3) Implementation – carrying out planned test (day of exam)
- (4) Evaluation (day of exam or next day)

Duration

- 1 hour 30 minutes**
2 hours
3 hours
30 minutes

Centres should take great care that any confidential information given does not reach the candidates either directly or indirectly.

Centres should follow the instructions given in this document closely and every care should be taken to safeguard the integrity of the exam.

Centres must allow time between the planning session and the practical test so that test materials can be ordered, but they must not organise any practice that has a bearing on the exam between the planning session and the practical test.

PREPARATION OF PRACTICAL TEST TASK – PRIOR TO EXAM SESSION

The Centre should choose an exam date between August and October. All work must be submitted for marking by Cambridge **by 31 October**.

The Centre should make sure that:

- 1 **SIX MONTHS BEFORE** (or earlier) the day of the exam, the teacher chooses and gets a **pattern** for the practical test. At this point, the Centre should lay out the tasks and required pattern alteration, and prepare the PRACTICAL TEST TASK SHEET and a **mark scheme** for the test. A teacher should **work the test** to check timings, the level of difficulty of the tasks and the application of the mark scheme. **Centres may send a copy of the test to Cambridge for our consideration and comment.**
- 2 **THREE MONTHS BEFORE (or earlier)** the day of the exam, the Centre must purchase/copy the **correct number and sizes** of PATTERNS for **each** candidate and print/copy the **Candidate Instructions, the Practical Test Task Sheet, shopping list, time plans** etc. for each candidate. A copy of the Practical Test Task Sheet, the shopping list and time plan should be placed in the **pattern envelope** for **each** candidate.

THE PRACTICAL TEST – CONDUCT OF EXAM

- 3 **TASK ANALYSIS AND PLANNING – 1 hour 30 minutes** is allowed for this part of the exam. A maximum of **ONE SCHOOL WEEK** before the start of the practical test, the teacher should give **each** candidate a **pattern envelope** containing *a pattern for the test, a copy of the Candidate Instructions, the Practical Test Task Sheet, shopping list and planning sheets, and an Answer Booklet/Paper*.
- 4 Drafting, tracing and drawing paper, pins, pencil, biro and a tape measure should be provided. At the end of one and a half hours all pattern envelopes and candidates' work must be returned to the teacher and locked away. The teacher should retain a copy of the shopping list for each candidate.
- 5 The teacher should keep the copy of the shopping list, and make sure, during the week before the exam, that the fabric and other requirements specified in the candidate's shopping list are provided. Wherever possible, the candidate should be given the opportunity to select the fabric. Where this is not practical, the teacher should provide a fabric that conforms as closely as possible to the candidate's specifications. Centres must lock away the pattern envelopes containing the Practical Test Task Sheet etc. until the day of the preparation session.
- 6 **THE PREPARATION SESSION – 2 hours** are allowed for this part of the test and Centres should supervise it under the usual exam conditions. The pattern envelopes must be returned to the candidates for preliminary work on the test, which will include adapting/altering the pattern, cutting out, marking, preparation for fitting and any other work that may be suggested in the Practical Test Task Sheet. At the end of 2 hours, the candidates must return the pattern envelopes and all other test materials to the Supervisor, except for the items on which the candidates have been instructed to work before the Exam Session.
Note: It is important that candidates try on the test piece for the first time before the exam starts. Candidates whose work is unfinished after two hours should be allowed to complete the preparation for fitting, still under supervision, immediately after the preparation session. Centres should add a note to the mark sheet to show the amount of extra time taken.
- 7 **IMPLEMENTATION – CARRYING OUT PLANNED TEST – 3 hours** are allowed for this part of the exam. On the day of the exam, each candidate should have ready all the usual sewing requirements.
- 8 Each candidate should be given the question paper, pattern, test materials and the shopping list **30 minutes** before the exam commences.
- 9 **Before** the exam, candidates must prepare labels showing their names, candidate numbers and Centre number. These must be attached to the practical work after the exam.
- 10 Centres must allow enough table space for work by each candidate. They must also provide facilities for pressing.
- 11 The teacher should supervise the planned test, but **should not help or guide** candidates in any way.
- 12 Centres must provide a first-aid box, a reliable clock and a full-length mirror.

- 13 **EVALUATION** – Candidates have **a further 30 minutes** to complete their evaluation. They should carry this out within one day of the test. They should include an analysis of how successfully the test turned out, problems encountered, what could have been done differently, etc.

Candidates should mention the following points in their evaluation:

- The **strengths** and **weaknesses** of their work: i.e., the good and bad points of how they **planned** and **carried out** the task
 - The **accuracy/workmanship** of their work – does the garment fit well, are the seams neat, etc.; which **techniques** did they find **hard** or **easy**?
 - What **problems** did they face and how did they **solve** them?
 - What **improvements** should they make in terms of planning, preparation, organisation, time management, cutting and sewing?
 - What would they **do differently** if given the opportunity to complete the task again?
- 14 At the end of the practical exam session, the Centre **MUST** send **ALL** practical work together with the relevant documentation – for example, Practical Test Task Sheet, mark scheme, working mark sheets, shopping lists, etc. – to Cambridge for marking.
- 15 Cambridge will return the work done during the exam to the Centre after the results of the exam have been released.

CW/9631/2/PTTI

5.2 Specification grid for Cambridge International AS Level practical test (Paper 2)

Assessment objective	Analysis, planning and justification	Preparation	Implementation	Evaluation
Candidates should be able to:				
identify and recall knowledge and understanding	✓			
analyse, choose and apply relevant knowledge by organising their work clearly and logically	✓	✓		
make informed and rational choices	✓	✓		
carry out a course of action using a range of relevant, appropriate and transferable skills and resources			✓	
critically evaluate acquired knowledge, understanding and the decision-making process				✓

5.3 Criteria for assessing the Cambridge International AS Level practical test (Paper 2)

1 Task analysis and planning – 10 marks

This area relates to the candidate's ability to see possible opportunities for showing practical skills, including pattern lay and techniques required.

Criteria	Marks	
- Detailed analysis of task and a clear understanding of the opportunities for practical work relevant to the task - Informed judgements on the use of appropriate resources - Justification of choices made, with full reasoning	8–10	High
- Shows some analysis of the task and some understanding of the opportunities for practical work relevant to the task - Suitable judgements on the use of appropriate resources - Justification of choices made, with reasoning	4–7	Mid
- Brief analysis of task, with some understanding of the opportunities for practical work relevant to the task - Some judgements on the use of resources - Justification of choices made, with little or no reasoning	0–3	Low

2 Preparation – 20 marks

This area relates to the candidate's ability to develop a plan of action and make informed decisions that direct the progress of the practical tasks.

Criteria	Marks	
- Makes informed decisions about what is to be done and how the work should be carried out, including pattern adaptation/alteration - Generates a logical plan of action/production plan/order of work/time plan - Indicates specific resource materials and methods to be used, with relevant details - Fully assembles the resource materials needed for carrying out the test, including fitting if necessary	15–20	High
- Makes decisions about what is to be done and how the work should be carried out, including pattern adaptation/alteration - Generates a logical plan of action/production plan/order of work/time plan - Indicates resource materials and methods to be used, with some detail - Partially assembles materials needed for carrying out the test	7–14	Mid
- Makes decisions to apply a plan of action, including the pattern adaptation/alteration - Indicates some of the resource materials and methods to be used, with little detail - Prepares fabric for carrying out the test, with little or no assembly of materials	0–6	Low

3 Implementation – Carrying out planned test

- **Organisation and time management – 10 marks**
- **Making up – 50 marks**

This area relates to the candidate's ability to use appropriate skills to complete the tasks.

Organisation and time management

Criteria	Marks	
• Carries out a course of action with precision, showing efficient use of resources • Shows awareness of relevant aspects of economy, safety and available technology when using equipment • Uses appropriate time scales effectively • Responds effectively to unexpected developments	8–10	High
• Carries out a course of action with some precision, showing some efficiency in the use of resources • Shows some awareness of relevant aspects of economy, safety and available technology when using equipment • Uses appropriate time scales • Responds adequately to unexpected developments	4–7	Mid
• Carries out a reasoned course of action, showing some efficiency in the use of resources • Shows some awareness of aspects of economy, safety and available technology when using equipment • Uses time scales • Responds to some extent to unexpected developments	0–3	Low

Making up

Criteria	Marks	
• Shows a good level of competence in practical skills • Achieves an effective realisation of the task, following a logical structure • Shows outstanding technical competences in the practical task	35–50	High
• Shows a satisfactory level of competence in practical skills • Achieves a realisation of the task, following a given structure • Shows clear technical competences in the practical task	18–34	Mid
• Shows some competence in practical skills • Achieves some realisation of the task, following a given structure • Shows some technical competences in the practical task	0–17	Low

4 Evaluation – 10 marks

This area relates to the candidate's ability to evaluate the results achieved.

Criteria	Marks	
- Analysis of specific strengths and weaknesses in the approach to the task and how the task was completed - Well-structured discussion that is consistently relevant and supported by concise reference to appropriate evidence	8–10	High
- Analysis refers to general strengths and weaknesses in the approach to the task and how the task was completed - Expresses statements well and presents arguments and ideas logically, supported by sound evidence	4–7	Mid
- Limited or no analysis of strengths and weaknesses in the approach to the task and how the task was completed - Expresses simple statements clearly, but is unable fully to develop points made	0–3	Low

6. Cambridge International A Level coursework (Paper 4)

6.1 Introduction

At this level, candidates must choose their own content and develop their own task, having picked a specific area of interest arising from the content of Textile Applications and Textile Technology. Cambridge International A Level coursework builds on and develops the knowledge, understanding and skills established at AS. Coursework at this level can involve a range of approaches, including:

- creation
- design and making
- practical application
- investigation.

Candidates must:

- carry out research, develop aims and analyse the task
- plan and develop the task
- carry out their course of action
- evaluate the outcomes of the task and critically analyse the decision-making process.

The work must include a variety of hand and machine processes. The marking criteria (Section 6.6) give further details of the requirements.

All work submitted **MUST** be designed and made by the candidate. Externally-produced work will not be accepted.

The coursework submitted by each candidate **must** include:

- **Three** investigative items or pieces of coursework. These three items must be from different areas of the syllabus or they can be three different types of item that share a common theme. Further details can be found in the suggested list of topics (see Appendix, Section 9.2).
- **A folder** that demonstrates the research, planning, implementation and evaluation undertaken by the candidate for each **item** (approximately 1000 words for each item).

Guidance on size, weight, materials and packing instructions are given in Appendix 3.

Candidates must research and collect information and use the research to help in the decision-making process, leading to a design specification and carrying that out, or a decision to continue active research. Candidates should indicate a range of possible future developments that could be explored.

Final coursework submissions may be up to 3000 words **in total**. However, Cambridge recognises that some good approaches to coursework can result in submissions of fewer words. The coursework may be internally assessed by teachers and is marked by Cambridge.

6.2 Submission of Coursework folders

The submission must be hand-written, typed or word processed on A3 or A4 paper. All loose sheets must be numbered and tied together, and all secured inside a soft cardboard folder (not a stiff ring binder).

Centres must label each folder clearly on the outside, with the name and number of the Centre, and the candidate name and number. A working mark sheet must accompany the folder.

Any appendices should contain evidence to support, justify and illustrate statements and decisions documented in the submission. Appendices may include:

- original questionnaire
- recording of primary research
- letters written and received
- references to secondary research/resources/books.

6.3 Marking

Teachers must follow the marking criteria in making comments on candidates' coursework. When entering candidates from different teaching groups (for example, different classes), the Centre must make sure that there is a common standard, so that the assessments generate a single, reliable order of merit. Cambridge will give marks based on the content of the submission.

Candidate's marks for Paper 4: Coursework must be recorded on the Individual Marksheet produced by Cambridge. These forms, and the instructions for completing them, may be downloaded from **www.cie.org.uk/samples**. The database will ask you for the syllabus code (i.e. 9631) and your Centre number, after which it will take you to the correct forms. Follow the instructions when completing each form.

The internally moderated marks for all candidates must be recorded on the Summary Mark Sheet. This form, and the instructions for completing it, may be downloaded from **www.cie.org.uk/samples**. The database will ask you for the syllabus code (i.e. 9631) and your Centre number, after which it will take you to the correct form. Follow the instructions when completing the form.

The Centre should clearly annotate all coursework submissions and make comments on the level of each candidate's work. All comments should be made at the side of the text, and should show:

- where the assessment criteria have been met
- the level of response that has been achieved by the candidate in meeting the assessment criteria (for example, low (L), middle (M), or high (H)).

Centres should note positive achievement by candidates, and can use particular phrases from the assessment criteria for further explanation.

All coursework is marked by Cambridge. Centres must submit all coursework to Cambridge **by 31 October**.

6.4 Authentication

Teachers must be able to verify that the work submitted for assessment is the candidate's own. A Cover Sheet must be completed and attached to the front of the work of each candidate. The Cover Sheet may be downloaded from **www.cie.org.uk/samples**. The database will ask you for the syllabus code (i.e. 9631) and your Centre number, after which it will take you to the correct form.

6.5 Specification grid for Cambridge International A Level coursework (Paper 4)

Assessment objective	Research, aims and analysis	Planning and development	Implementation	Evaluation
Candidates should be able to:				
identify and recall knowledge and understanding	✓			
analyse, choose and apply relevant knowledge by organising and presenting information clearly and logically	✓	✓		
make informed and rational choices		✓		
carry out a course of action using a range of relevant, appropriate and transferable skills and resources			✓	
carry out effective research	✓	✓	✓	
present the results of the research and undertake a critical analysis of the results				✓
critically evaluate acquired knowledge, understanding and the decision-making process				✓

6.6 Criteria for assessing Cambridge International A Level coursework (Paper 4)

1 Research, aims and analysis of tasks – 15 marks

This area relates to the candidate's ability to see potential for opportunities for the development of ideas, from the candidate's own choice of context, and to use a range of research techniques.

Criteria	Marks	
- Formulates task and specific, detailed and realistic aims for the work - Detailed analysis of the task - Explores thoroughly ideas for the task and discusses a range of relevant issues/factors - Shows a clear understanding of the opportunities for practical and investigative work relevant to the area of study - Makes informed judgements on the use of appropriate resources - Carries out research from a wide variety of sources and selects especially appropriate background information	11–15	High
- Formulates task and detailed aims for the work - Some analysis of the task - Explores ideas for the task and explains a range of relevant issues/factors - Shows an understanding of the opportunities presented for practical and investigative work relevant to the area of study - Makes suitable judgements on the use of appropriate resources - Carries out research from a variety of sources and selects relevant background information	6–10	Mid
- Formulates task and aims for the work - Brief analysis of the task - Explores some ideas for the task and identifies some issues/factors - Shows some understanding of the opportunities for practical and investigative work relevant to the area of study - Makes judgements on the use of resources - Carries out research from a limited number of sources and selects some background information	0–5	Low

2 Planning and development – 20 marks

This area relates to the candidate's ability to develop objectives and to make informed decisions that direct the progress of the study. Candidates must also generate ideas for further development during the course of study.

Criteria	Marks	
• Uses detailed relevant knowledge and research to generate ideas and in decision-making • Determines clear design specification with specific and detailed objectives for the task • Takes evidence gained from research and uses it as a basis for making valid judgements and relevant choices • Indicates clearly specific resource materials and methods to be used, with all relevant details • Justifies choices made with full reasons and produces a concise, well-ordered and effective plan of action with a detailed time scale	14–20	High
• Uses relevant knowledge and research to generate ideas and in decision-making • Determines design specification and formulates specific objectives for the task • Takes evidence gained from research and uses it as a basis for making judgements and choices • Indicates specific resource materials and methods to be used, with some detail • Justifies choices made with full reasons and produces an effective plan of action with an appropriate time scale	7–13	Mid
• Uses knowledge and research to generate ideas and in decision-making • Determines outline for design and formulates general objectives for the task overall • Takes evidence gained from the research and uses it in a limited manner to make simple judgements and choices • Indicates some of the resource materials and methods to be used, with little detail • Makes some limited justification for choices and produces a plan of action with an indication of timings	0–6	Low

3 Implementation – 40 marks

- **Process – 25 marks**
- **Realisation – 15 marks**

This area is concerned with the implementation of appropriate skills and resources to achieve the realisation of stated objectives.

Process – Carrying out coursework tasks

Criteria	Marks	
• Implements a logical and reasoned course of action with precision, demonstrating the optimum and efficient use of resources • Demonstrates a clear awareness of relevant aspects of economy, safety and available technology when using appropriate equipment • Implements effectively appropriate time scales as planned • Demonstrates a high level of competence in practical skills • Demonstrates a high level of creativity/originality • Responds effectively to unforeseen developments in an appropriate way • Demonstrates appropriate and relevant communication and interpersonal skills	18–25	High
• Implements a logical and reasoned course of action with some precision, demonstrating efficient use of resources • Demonstrates awareness of relevant aspects of economy, safety and available technology when using appropriate equipment • Implements appropriate time scales • Demonstrates a good level of competence in practical skills • Demonstrates a good level of creativity/originality • Responds to unforeseen developments • Demonstrates relevant communication and interpersonal skills	9–17	Mid
• Implements a reasoned course of action with little precision, demonstrating some efficiency in the use of resources • Demonstrates some awareness of relevant aspects of economy, safety and available technology when using appropriate equipment • Implements time scales • Demonstrates a limited level of competence in practical skills • Demonstrates a limited level of creativity/originality • Responds in some measure to unforeseen developments • Demonstrates adequate communication and interpersonal skills	0–8	Low

Realisation – Quality of the outcome

Criteria	Marks	
- Achieves an effective realisation of objectives which meet accurately the original specification - Demonstrates originality, creativity and aesthetic awareness of a high order in an appropriate form - Demonstrates outstanding technical competences in an appropriate form - Uses, with precision, a range of appropriate media to communicate effectively the outcomes of the process	11–15	High
- Achieves an effective realisation of objectives which meet the original specification - Demonstrates originality, creativity and aesthetic awareness of a very satisfactory order in an appropriate form - Demonstrates clear technical competences in an appropriate form - Uses effectively, a range of appropriate media to communicate fully the outcomes of the process	6–10	Mid
- Achieves a realisation of objectives which meet most of the original specification - Demonstrates some originality, creativity and aesthetic awareness in an appropriate form - Demonstrates limited technical competences in an appropriate form - Uses a limited range of appropriate media to communicate the outcomes of the process	0–5	Low

4 Evaluation – 25 marks

This area relates to the candidate's ability to evaluate the findings and results achieved and to draw conclusions. Candidates must critically analyse and review the decision-making process of the task as a whole.

Criteria	Marks	
- Summarises the outcome of the task and draws informed conclusions - Interprets the outcome of the task with reference to the original aims - Analyses and substantiates specific strengths and weaknesses in the results/outcomes achieved - Fully recognises the degree to which the aims of the task have been met - Produces a critical evaluation of the task - Recognises the effectiveness of the chosen course of action - Indicates a range of possible relevant future developments that could be explored - Work is well structured and consistently relevant and supported by concise reference to appropriate evidence - Excellent folder, which is well presented and organised; excellent use of illustrations and other resources/materials	18–25	High
- Summarises the outcome of the task and draws appropriate conclusions - Interprets the outcome of the task with reference to the original aims - Analyses some strengths and weaknesses in the results/outcomes achieved - Recognises the degree to which the aims of the task have been met - Produces an evaluation of the task - Recognises the value of the chosen course of action - Indicates some possible future developments that could be explored - Work is logical, supported by sound evidence - Good presentation of folder; contents are organised and good use of illustrations and other resources/materials	9–17	Mid
- Limited summary of the outcome of the task and draws some conclusions - Interprets the outcome of the task with little reference to the original aims - Limited analysis of strengths and weaknesses in the results/outcomes achieved - Limited recognition of how some of the aims of the task have been met - Produces a limited evaluation of the task - Recognises some of the strengths and weaknesses of the chosen course of action - Indicates only a few developments that might be explored - Work is not fully developed; few points made - Folder shows some organisation; a few illustrations	0–8	Low

7. Glossary of terms

The following terms are used in the exam papers:

ACCOUNT FOR	Answer for; explain the cause of.
ANALYSE	Examine minutely, separate into parts so as to find out their nature; find the essence of.
ASSESS	Give your judgement on the merit of something; put a value on it, the worth of something.
CRITICALLY ASSESS	As for ASSESS plus make a judgement of the merit or truth of something, backed by a discussion of the evidence.
COMMENT ON	Write brief explanatory notes on; make remarks on or about a topic; give an opinion about something.
COMPARE	Look for similarities and differences.
CONSIDER	Think about in order to understand or decide; weigh the merit of.
DESCRIBE	Write out the main features.
DISCUSS	Investigate or examine by argument, giving reasons for and against; it may or may not be necessary to come to a conclusion, depending on the context.
EVALUATE	As for ASSESS plus judge the worth of something by means of stated criteria.
EXAMINE	Look at or study closely; find out the facts.
IDENTIFY	Name and/or select; pick out.
ILLUSTRATE	Make plain or clear; interpret and account for; make room in detail.
JUSTIFY	Demonstrate correctness of.
OUTLINE	Describe essential parts only – summary, main features, general principle.

8. Resource list

8.1 Further information for teachers

Useful addresses in the UK:

- Department for Business Innovation and Skills, **www.bis.gov.uk** (for information on British and European standards)
- British Textile Technology Group, Wira House, West Park Ring Road, Leeds, LS16 6QL (tel: 01132 591999) **www.bttg.co.uk**
- Lever Bros Education Trust, International Teaching Resource Centre, PO Box 10, Wetherby, West Yorkshire, LS23 6YY
- **www.amazon.co.uk**
- Publishers such as Thames and Hudson, Batsford and Cassell and Co frequently bring out new titles. Searches should also be made on fashion designers' names for the latest books.

8.2 Reading list – for AS and A Level

Key Texts are indicated by * for example, *M Taylor, *The Technology of Textile Properties*, Forbes appears as a key text, with different editions listed. However, teachers can also use locally available text books that cover the requirements of the syllabus. Some of these books may be out of print but they have been included in the list of resources as Centres may already have copies of them and they are useful for research purposes.

Fibres and Fabrics

Author	Title	Date	Publisher	ISBN
*B P Corbman	<i>Textiles: Fibre to Fabric</i> (also covers textile applications, dyeing etc)	1983	McGraw-Hill International Ltd, Maidenhead	978 0070131376
*H Eberle et al	<i>Clothing Technology</i>	2008	Europa Lehrmittel Verlag	978 3808562253
K Howard and E Prisk	<i>Science Experiments in Food and Textiles</i>	1995	Forbes, London	978 0901762979
*E Miller	<i>Textiles</i>	1992	B. T. Batsford Ltd, London	978 0713472356
*M Taylor	<i>The Technology of Textile Properties</i>	1991	Forbes	978 0901762825
	<i>Textiles Magazine</i> (4 issues a year)		The Textile Institute, Manchester, www.texti.org/	
M J Denton and P N Daniels	<i>Textile Terms and Definitions</i>	2002	The Textile Institute, Manchester, www.texti.org/	978 1870372442

Design

Author	Title	Date	Publisher	ISBN
*W Aldrich	<i>Metric Pattern Cutting</i>	2008	John Wiley	978 1405175678
R Box	<i>Drawing and Design for Embroidery</i>	1995	B. T. Batsford Ltd, London	978 0713478839
V Campbell-Harding	<i>Fabric Painting for Embroidery</i>	2001	B. T. Batsford Ltd, London	978 0713486094
D Cloake	<i>Fashion Design on the Stand</i>	1996	B. T. Batsford Ltd, London	978 0713477573
C Crabtree	<i>World Embroidery</i>	1993	David & Charles, Newton Abbot	978 0715399392
J Dean	<i>The Craft of Natural Dyeing</i>	1994	Search Press, Tunbridge Wells	978 0855327446
V Holmes	<i>The Machine Embroiderer's Workbook</i>	2001	B. T. Batsford Ltd, London	978 0713479836
P Ireland	<i>New Encyclopaedia of Fashion Details</i>	2008	B. T. Batsford Ltd, London	978 1906388065
P Ireland	<i>Fashion Design, Drawing and Presentation</i>	1982	B. T. Batsford Ltd, London	978 0713435191
P Ireland	<i>Introduction to Fashion Design</i>	1992	B. T. Batsford Ltd, London	978 0962558627
C Jeffrys	<i>The Complete Book of Sewing</i>	2006	Dorling Kindersley and National Magazine Company, London	978 1405312950
C Joyce	<i>Textile Design</i>	1997	Watson-Guptill, Oxford	978 0823053261
J Kennedy and J Varrall	<i>Everything You Ever Wanted to Know about Fabric Painting</i>	1994	B. T. Batsford Ltd, London	978 0713471571
C McDermott	<i>Essential Design</i>	1994	Bloomsbury Publishing PLC	978 0747519362
Reader's Digest	<i>Sewing and Knitting: A Reader's Digest Step-by-Step Guide</i>	1994	Reader's Digest	978 0276421426
P Stringer	<i>Pattern Drafting for Dressmaking</i>	1992	B. T. Batsford Ltd, London	978 0713469875
*M Taylor	<i>The Technology of Textile Properties</i>	1991	Forbes	978 0901762825

M Yates	<i>Textiles: A Handbook for Designers</i>	1996	Norton, London	978 0393730036
Colin McDowell	<i>Jean Paul Gaultier</i>	2001	Weidenfeld and Nicolson	978 1841881645

Textile Applications

Author	Title	Date	Publisher	ISBN
*L Drew	<i>The Business of Fashion</i>	1992	Cambridge University Press, Cambridge	978 0521408257
*H Eberle et al	<i>Clothing Technology</i>	2008	Europa Lehrmittel Verlag	978 3808562253
E Ewing and A Mackrell	<i>History of 20th Century Fashion, 4th Edition</i>	2005	B. T. Batsford Ltd, London	978 0713489323
C Jeffrys	<i>The Complete Book of Sewing</i>	2006	Dorling Kindersley and National Magazine Company, London	978 1405312950
Reader's Digest	<i>Sewing and Knitting: A Reader's Digest Step-by-Step Guide</i>	1994	Reader's Digest	978 0276421426
*M Taylor	<i>The Technology of Textile Properties</i>	1991	Forbes	978 0901762825

Textile Technology

Author	Title	Date	Publisher	ISBN
*H Carr and J Pomeroy	<i>Fashion Design and Product Development</i>	1992	John Wiley	978 0632028931
G Cooklin	<i>Introduction to Clothing Manufacture, 2nd edition</i>	2006	John Wiley	978 0632058464
*L Drew	<i>The Business of Fashion</i>	1992	Cambridge University Press, Cambridge	978 0521408257
*H Eberle et al	<i>Clothing Technology</i>	2008	Europa Lehrmittel Verlag	978 3808562253

8.3 Online resources

Note: These may change or expire – use your browser to check for other sites.

www.costumes.org

www.costumes.org/ethnic/1PAGES/asiancostlinks.htm

http://vads.ahds.ac.uk/learning/designingbritain/html/ffs_sewing2.html

<http://sewing.patternreview.com>

www.vedamsbooks.com/textile.htm

www.elearning-textiles.co.uk

www.bbc.co.uk/gcsebitesize/design/textiles

www.studysphere.com (click on the Arts section – Fashion Design and Textiles)

<http://char.txa.cornell.edu/media/textile/structur.htm>

8.4 Dress patterns (modern, traditional, cultural and historical) and textiles

The following list of internet sites includes companies who will deliver patterns by post. The sites also provide ideas for styles and projects that teachers and candidates can use to develop the practical test at Cambridge International AS Level and the coursework at Cambridge International A Level.

Brown Paper Patterns: **www.brownpaperpatterns.com**

Butterick Patterns: **<http://butterick.mccall.com>**

Fabrics.net: **www.fabrics.net**

Habithat.co.uk: **www.habithat.co.uk**

Jaycotts: **www.jaycotts.co.uk**

The McCall Pattern Company: **<http://mccallpattern.mccall.com>**

SalwarKameezindia.com: **www.salwarkameezindia.com**

Sewing Patterns.com: **www.sewingpatterns.com**

The Sewing Place: **www.thesewingplace.com**

Simplicity Pattern Company: **www.simplicity.com**

Utsav Sarees: **www.utsavsarees.com**

9. Appendix

9.1 Appendix 1: Exemplar material and templates for the practical test

Choose 5 tasks, to the value of 50 marks, using the chosen pattern. Try to begin and end with a simple skill. Two examples are given below.

Cambridge International AS Level Practical – Suggestions for Practical Test Task Sheet

Example 1

PRACTICAL TEST TASK SHEET – MARK SCHEME			YEAR 2016
Pattern Number: 1234 Style: Skirt with waistband, pleats and zip View: C Pattern alteration: <u>Alter knife pleats to box pleats</u> Make the garment up to show the following:			
		Demonstration of skill	Quality of outcome
1	Side seams	[5]	[5]
2	Back darts	[5]	[5]
3	Insertion of zip	[5]	[5]
4	Making and application of waistband	[5]	[5]
5	Buttons and buttonhole on waistband	[5]	[5]
		(25)	(25)
	Total		50

Example 2

PRACTICAL TEST TASK SHEET – MARK SCHEME

YEAR 2016

Pattern Number: 3456

Style: A blouse gathered to a yoke, self faced, with short sleeves and banded cuffs

View: A

Pattern alteration: Alter back shoulder darts to a back yoke with gathers

Make the garment up to show the following:

1	Back and front yoke with gathers	[10]
2	Shoulder and side seam	[10]
3	Faced neckline	[10]
4	Make and insert one sleeve	[10]
5	Banded cuff on one sleeve	[10]
	Total	50

PRACTICAL TEST – CANDIDATE INSTRUCTIONS

Please provide one copy of the instructions, the pattern and the test task sheet – with all the tasks listed – to each candidate.

DESIGN AND TEXTILES – CANDIDATE INSTRUCTIONS**9631/2**

Paper 2 – Practical Test

August/October

Duration

1) Task Analysis and Planning	1 hour 30 minutes
2) Preparation	2 hours
3) Implementation – Carry out test	3 hours
4) Evaluation	30 minutes

Additional Materials:

Answer Booklet/Paper	Pins
Drafting, tracing, drawing paper	Pencil, biro
Paper scissors	Tape measure

READ THESE INSTRUCTIONS FIRST

For this test you are to prepare the pattern and make up a garment according to the instructions given on the Practical Test Task Sheet on the next page.

Before you begin, you should study the tasks carefully, together with the pattern.

The number of marks for each task is given in brackets [] at the end of each task or section.

Write your name and candidate number and Centre number on the label printed on the next page. At the end of the examination, cut out the label and attach it to your work.

The task sheet and evaluation **must be included** with the practical work when it is submitted to Cambridge for assessment.

This document consists of **2** printed pages

WMS713**9631/2/CW**

PRACTICAL TEST TASK SHEET

YEAR of test

Pattern Number:

Style:

View:

Pattern adaptation: _____

Make up the garment to show the following:

1		[]
2		[]
3		[]
4		[]
5		[]
	TOTAL	50

1. Task Analysis and Planning

- (a) You are provided with a pattern and the practical paper tasks printed above.
- (b) You will be asked to make up the pattern in a fabric and width of your choice, and to perform specific tasks in the construction of the garment.
- (c) Write out a shopping list of the requirements for completing the garment.
- (d) Give a reason for each of the following: choice of fabric, colour, components (notions), processes to be worked.
- (e) List the necessary resources that you will need to carry out the practical work.
- (f) The pattern should be divided for use in the Preparation Session.
- (g) Hand in your shopping list, the pattern and the task sheet to the Supervisor.

2. Preparation Session

Preparation of pattern and material and assembly of garment for a fitting.

- (a) Adjust the pattern according to the Practical Test Task Sheet above.
- (b) Plan the order of work and layout for the garment and cut out the pieces required, including interfacing.
- (c) Assemble the garment for a fitting.
- (d) Any remaining time may be used to practice specific techniques. These should be sent, with the finished item, for marking.

3. Implementation – Carry out the test

- (a) Organisation and time management.
- (b) Make up the garment as detailed in the Practical Test Task Sheet above.

4. Evaluation

Evaluate the results of the practical task test and comment on how you approached the tasks.

Shopping List Form

DESIGN AND TEXTILES (9631/2)

PRACTICAL PLANNING SHEET

Centre Number						Centre Name	
Candidate Number						Candidate Name	
November	2	0	1				

Shopping List

[illegible]

The task sheet and evaluation must be included with the practical work when it is submitted for assessment.

At the end of the examination, cut out the label below and pin it to the garment.

Candidate Name

Centre Number/Candidate Number/.....

WMS713

9631/2/CW/I

I confirm that the work submitted is the candidate's own and no help has been given during the Practical Test.

Name

Position

Date

WMS709

9631/2/CW/S

DESIGN AND TEXTILES (AS Level) 9631/2 PRACTICAL TEST TASK MARK SHEET

For CIE use	CANDIDATE NAME			CANDIDATE NUMBER	
	CENTRE NAME			CENTRE NUMBER	
	Pattern number/style: Size:				
	ASSESSMENT CRITERIA		MARK		TEACHER COMMENT
max			Teacher Mark		
	1	Task Analysis and Planning (a) Analysis of task (b) Planning of requirements (c) Justification of choice	0–10 (3) (4) (3)		
	2	Preparation (a) Alteration to pattern (b) Production plan/order of work/time plan for cutting and assembly (c) Lay out, cutting and marking (d) Testing (fit)	0–20 (5) (5) (5) (5)		
	3	Implementation (a) Organisation and time management	0–10		
		(b) Tasks: 1 2 3 4 5	0–50 (.....) (.....) (.....) (.....) (.....)		
	4	Evaluation (a) Conclusion (b) Findings (c) Results achieved	0–10 (3) (4) (3)		
	TOTAL		100		

9.2 Appendix 2: Suggested topics for Cambridge International A Level coursework and marking templates

Candidates must provide **three original/creative items**, together with the **developmental work** for each item. Each item must be from a different area of the syllabus and demonstrate the use of different skills and techniques. The three items can be independent of each other or they can share a common theme. Each investigative piece includes **analysis/research, planning and development, implementation and evaluation**. Evaluation should include comments on the strengths and weaknesses of the work, the techniques used, the quality of workmanship, problems and solutions, and possible improvements.

The suggestions below are starting points and could be used to write specific design briefs to produce **either** one individual creative item **or** three related items. The three items can share a common theme but the folder must contain the developmental work for **each** one.

- 1 Design a collection of skirts, tops, etc for a specified retail outlet and make a prototype/prototypes of one/some of the items. (This will involve market research, design ideas (occasion, age group, fabric, colour, etc.), adapting existing pattern(s), cutting, making item(s), evaluation.)
- 2 Historical study of a fashion designer/fashion style, leading to a personal response. (This will involve research, creating own design ideas from research, designing pattern/making own pattern, making item(s), evaluation.)
- 3 Product analysis of a chosen item. (This will involve research into the item with a view to their design in use, planning and developing improvements, making a prototype, evaluation.)
- 4 Design a collection of textile items for an interior design collection. (This will involve researching a particular interior style of items such as cushions, planning and development (of colour, fabrics, decoration, etc.), making item(s), evaluation.)
- 5 Create one or more original textile item(s) from research into a chosen theme. (This will involve research of a theme (such as dragons, symbols, architecture, natural forms, etc.), planning and developing textile techniques (such as hand embroidery, appliqué, quilting, etc.), making item(s), evaluation.)
- 6 Study of production methods used to show decorative effects on garments made in the textile industry. (This will involve research of two methods of production (such as batch production, mass production, hand-crafted item, etc.), planning and developing one or more item(s) for the method of production researched, making item(s) using chosen methods of production, evaluation. This approach could be linked with industry so that first-hand study of production methods in industry are possible, for example a work experience link.)
- 7 Comparison of woven and knitted fabric. (This will involve researching both methods of fabric construction (such as variation of construction methods, types, fibre content, colour effects), planning and development of items using both woven and knitted fabric, making items, evaluation.)
- 8 Modern sewing machines feature a wide variety of machine accessories. Illustrate the use of these accessories. (This will involve investigating a range of features and uses, demonstrating use of at least three accessories, making up garments to show use, providing an instructional leaflet on machine accessories.)
- 9 The success of any garment often depends on the choice of colours and fabric. Comment on this statement. (This will involve investigating the statement, providing examples, etc.)
- 10 Investigate the influence of traditional or cultural influences on garment design and fabric and assess how they may affect fashion trends.

Assignment brief

The examples below show possible formats for the coursework assignments.

The first example is for one item only. The candidate would need to complete two more studies, on different topics or areas of the syllabus, for inclusion in the portfolio. The work for each item should not be longer than 1000 words.

The second is an example of a design brief that could be used to make three different items with a common theme. Each item would require its own design brief and development work for inclusion in the folder. The work for all three items should not be longer than 3000 words.

It is important that each item reflects a different part of the syllabus and demonstrates the use of different practical, creative and technical skills.

Example 1

COURSEWORK ASSIGNMENT:		
Garments can be recycled, and then decorated to create a totally different style or item.		
(a)	- What evidence can be found to support this statement? - Record and evaluate your findings	[15]
(b)	- Prepare a design brief to redesign and decorate a garment in your wardrobe to create a totally different garment/style/item - Give reasons for your choice of garment and decoration - Identify the cost of the human and non-human resources used for making your garment	[20]
(c)	- Implement your design(s) - Prepare an instructional guide and provide a sample pattern to show how your garment was made	[40]
(d)	Evaluate your practical work and research folder	[25]
Total		100

Example 2

COURSEWORK ASSIGNMENT:

The 'Hotshot' chain of retail shops sells clothing and accessories to young men and women. Design a collection for their store in your area.

1. Provide a minimum of three items (garments, accessories or other textile items) – with a detailed assignment brief for each item.
2. Each item or garment must use a different technique or show an understanding of a different area of the syllabus.
3. Each item will be marked separately.

		Marks for each item
(a)	• Research the target market and the type or style of clothing sold by the outlet • Record and assess your findings for each item	[15]
(b)	• Prepare a design brief based on your findings • Give reasons for your choice of garments or design (target market, fabric, colour, decoration, locality, etc.) for each item • Identify the cost of the human and non-human resources used for making each item	[20]
(c)	• Implement your design(s) • Provide a sample pattern to show how each of your garments/items was made • Prepare some publicity, based on your designs, for use by the retailer	[40]
(d)	• Evaluate the practical work and development folder for each item	[25]
Total		100

9.3 Appendix 3: Administration of Coursework (Paper 4)

Size and Weight of Work

Before candidates begin to plan their finished piece or start their supporting work, they must be aware of the size and weight restrictions. Each candidate's work must not exceed 4.5kg; nor must pieces, other than garments, exceed 750 mm in any direction.

Inappropriate Material

Candidates must work in textiles, defined as compliant materials as opposed to hard materials such as wood, metal etc.

Cambridge does not wish to restrict the creative process, but Teachers are reminded that the use of inappropriate media can be potentially dangerous to those packing the scripts and to the examiners. The following is a list of items that are deemed to be inappropriate.

- Any glass, including mirrors (except shisha mirrors)
- Plaster
- Unfired clay
- Animal skin
- Organic matter

Centres are advised to contact Cambridge if they are in doubt about the suitability of materials. Any work carried out in an inappropriate medium will not be assessed if Health and Safety considerations render this impossible. Teachers must be aware that certain materials will create problems with Customs and Excise or are CITES (Convention on International Trade of Endangered Species) listed.

Packing Instructions

- 1 The examination work and the appropriate supporting work must be packed together with the examination work on top. Supporting work must be securely fastened to the examination piece at the top left-hand corner, and it must be packed in candidate number order so that the candidate with the lowest candidate number is placed on top of the pile, i.e. the order in which the candidates appear on the attendance register. The attendance register must be placed on the top of the pile. All practical work and folders for each candidate should be packed together in clearly labelled polythene, paper or plastic sacks.
- 2 Any 3D work must be packed in durable containers and in such a way as to minimise the movement of the work within the container. Centres are advised to obtain polythene 'bubble wrap'. Newspaper and sawdust are not suitable packing materials. Picture frames should not be used for wall hangings which by definition are unframed.
- 3 Examination work and supporting work must be sent to Cambridge as soon as it is completed. Centres should not wait until the end of the examination period before despatching the work.
- 4 Where possible the work should be packed in the large white plastic envelopes provided by Cambridge. Candidates should not make/decorate containers to hold their work within the outer packaging. All work should be sent to Cambridge.

10. Other information

Equality and inclusion

Cambridge International Examinations has taken great care in the preparation of this syllabus and assessment materials to avoid bias of any kind. To comply with the UK Equality Act (2010), Cambridge has designed this qualification with the aim of avoiding direct and indirect discrimination.

The standard assessment arrangements may present unnecessary barriers for candidates with disabilities or learning difficulties. Arrangements can be put in place for these candidates to enable them to access the assessments and receive recognition of their attainment. Access arrangements will not be agreed if they give candidates an unfair advantage over others or if they compromise the standards being assessed.

Candidates who are unable to access the assessment of any component may be eligible to receive an award based on the parts of the assessment they have taken.

Information on access arrangements is found in the *Cambridge Handbook* which can be downloaded from the website **www.cie.org.uk/examsofficers**

Language

This syllabus and the associated assessment materials are available in English only.

Grading and reporting

Cambridge International A Level results are shown by one of the grades A*, A, B, C, D or E, indicating the standard achieved, A* being the highest and E the lowest. 'Ungraded' indicates that the candidate's performance fell short of the standard required for grade E. 'Ungraded' will be reported on the statement of results but not on the certificate. The letters Q (result pending), X (no results) and Y (to be issued) may also appear on the statement of results but not on the certificate.

Cambridge International AS Level results are shown by one of the grades a, b, c, d or e, indicating the standard achieved, 'a' being the highest and 'e' the lowest. 'Ungraded' indicates that the candidate's performance fell short of the standard required for grade 'e'. 'Ungraded' will be reported on the statement of results but not on the certificate. The letters Q (result pending), X (no results) and Y (to be issued) may also appear on the statement of results but not on the certificate.

If a candidate takes a Cambridge International A Level and fails to achieve grade E or higher, a Cambridge International AS Level grade will be awarded if both of the following apply:

- the components taken for the Cambridge International A Level by the candidate in that series included all the components making up a Cambridge International AS Level
- the candidate's performance on these components was sufficient to merit the award of a Cambridge International AS Level grade.

For languages other than English, Cambridge also reports separate speaking endorsement grades (Distinction, Merit and Pass), for candidates who satisfy the conditions stated in the syllabus.

Entry codes

To maintain the security of our examinations, we produce question papers for different areas of the world, known as 'administrative zones'. Where the component entry code has two digits, the first digit is the component number given in the syllabus. The second digit is the location code, specific to an administrative zone. Information about entry codes for your administrative zone can be found in the *Cambridge Guide to Making Entries*.

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