



# Design and Technology

**GCSE 2012**

**D&T: Food Technology**

Specification

J302 – Full Course

Version 2

May 2016



## A FEW GOOD REASONS TO WORK WITH OCR

- You can enjoy the **freedom and excitement** of teaching qualifications which have been developed to help you inspire students of all abilities.
- We've built specifications **with you in mind**, using a clear and easy-to-understand format, making them straightforward for you to deliver.
- Our **clear and sensible assessment** approach means that exam papers and requirements are clearly presented and sensibly structured for you and your students.
- **Pathways for choice** – we have the broadest range of qualifications and our GCSEs provide an ideal foundation for students to progress to more-advanced studies and into the workplace.
- **Working in partnership to support you** – together with teachers we've developed a range of practical help and support to save you time. We provide everything you need to teach our specifications with confidence and ensure your students get as much as possible from our qualifications.
- **A personal service** – as well as providing you with lots of support resources, we're also here to help you with specialist advice, guidance and support for those times when you simply need a more individual service.

## HERE'S HOW TO CONTACT US FOR SPECIALIST ADVICE:

By phone: 01223 553998

By email: [general.qualifications@ocr.org.uk](mailto:general.qualifications@ocr.org.uk)

By online: <http://answers.ocr.org.uk>

By fax: 01223 552627

By post: Customer Contact Centre, OCR, Progress House, Westwood Business Park, Coventry CV4 8JQ

**DON'T FORGET** – you can download a copy of this specification and all our support materials at [www.ocr.org.uk/gcse2012](http://www.ocr.org.uk/gcse2012)



<b>1. Introduction to GCSE in Design Technology: Food Technology</b>	<b>6</b>
1.1 Introduction to the Innovator Design and Technology Suite	6
1.2 Overview of GCSE Design and Technology: Food Technology (J302)	7
1.3 Guided learning hours	8
1.4 Aims and learning outcomes	8
1.5 Prior learning/attainment	8
<b>2. Content of GCSE Design and Technology: Food Technology</b>	<b>9</b>
2.1 Unit A521: <i>Introduction to designing and making</i>	9
2.2 Unit A523: <i>Making quality products</i>	11
2.3 Unit A525: <i>Sustainability and technical aspects of designing and making</i>	13
<b>3. Assessment of GCSE Design and Technology: Food Technology</b>	<b>19</b>
3.1 Assessment in GCSE Design and Technology: Food Technology	19
3.2 Assessment Objectives (AOs)	21
3.3 Grading and awarding grades	21
3.4 Grade descriptions	22
3.5 Quality of written communication	23
<b>4. Controlled assessment in GCSE Design and Technology: Food Technology</b>	<b>24</b>
4.1 Controlled assessment tasks	24
4.2 Planning and managing controlled assessment	25
4.3 Marking and moderating controlled assessment	26
4.4 Submitting the moderation samples via the OCR Repository	38
<b>5. Support for GCSE Design and Technology: Food Technology</b>	<b>39</b>
5.1 Free resources available from the OCR website	39
5.2 Other resources	39
5.3 Training	40
5.4 OCR support services	40
<b>6. Equality and Inclusion in GCSE Design and Technology: Food Technology</b>	<b>41</b>
6.1 Equality Act information relating to GCSE Design and Technology: Food Technology	41
6.2 Arrangements for candidates with particular requirements (including Special Consideration)	42

## **7. Administration of GCSE Design and Technology: Food Technology 43**

7.1 Availability of assessment from 2014	43
7.2 Certification rules	43
7.3 Rules for re-taking a qualification	43
7.4 Making entries	44
7.5 Enquiries about results	45
7.6 Prohibited qualifications and classification code	45

## **8. Other information about GCSE Design and Technology: Food Technology 46**

8.1 Overlap with other qualifications	46
8.2 Progression from this qualification	46
8.3 Avoidance of bias	46
8.4 Regulatory requirements	46
8.5 Language	46
8.6 Spiritual, moral, ethical, social, legislative, economic and cultural issues	47
8.7 Sustainable development, health and safety considerations and European developments, consistent with international agreements	47
8.8 Key Skills	48
8.9 ICT	48
8.10 Citizenship	48

## **9. Appendix A: Controlled Assessment Themes Units A521 and Unit A523 49**

Unit A521	49
Unit A523	50

## **10. Appendix B: Guidance for the production of electronic controlled assessment 51**

Structure for evidence	51
Data formats for evidence	51

Vertical black lines indicate a significant change to the previous printed version.

# 1 Introduction to GCSE in Design Technology: Food Technology

## 1.1 Introduction to the Innovator Design and Technology Suite

The Innovator Design and Technology suite comprises six Design and Technology GCSEs for the innovators of the future:

- Electronics and Control Systems
- Food Technology
- Graphics
- Industrial Technology
- Resistant Materials
- Textiles Technology

Please be aware that with effect from September 2016, Food Technology will no longer be available as part of the Innovator Design and Technology suite. OCR's GCSE (9-1) in Food Preparation and Nutrition (J309) replaces this qualification. Please visit [www.ocr.org.uk](http://www.ocr.org.uk) for details. This Food Preparation and Nutrition qualification is for first teaching in September 2016 and first assessment in 2018.

All six specifications follow the same structure:

### Unit 1: Introduction to designing and making

- Developing research and investigation skills
- Developing drawing skills where appropriate
- Modelling/Trialling
- Evaluating process/product

### Unit 2: Making quality products

- Designing for a need
- Working with tools and equipment
- Making a product
- Evaluating the product

### Unit 3: Sustainability and technical aspects of designing and making

- Consideration of products
- Consideration of the environment
- Consideration of society and economy
- Working with tools and materials
- Selecting processes
- Designing for success

These specifications provide an innovative and imaginative suite of qualifications rewarding flair and imagination, and reflecting the contemporary use of materials and information technology. One key element of these specifications is to encourage candidates to recognise the contribution they can make to meeting human needs and the environment through careful consideration and selection of sustainable resources.

Candidates have the opportunity to work with design concepts and materials in ways which recognise the need for wise choices being made in terms of meeting the needs of people, society, and the environment. Taught as a suite of qualifications there are opportunities for efficient use of both human and physical resources. Teachers can be confident in the knowledge that they are part of a team preparing candidates for a common goal.

Candidates wishing to follow a **Short Course in any D&T material area** should take **GCSE Design and Technology Product Design units A551 and A552**, details of which can be found in GCSE Design and Technology Product Design Specification J305.

## 1.2 Overview of GCSE Design and Technology: Food Technology (J302)

### **Unit A521: Introduction to designing and making**

This unit involves candidates researching, designing and subsequently making a functional product.

Candidates must select a theme set by OCR (See Appendix A). This theme can be contextualised in order to best suit centre-specific circumstances.

60 marks

30% of the total GCSE marks

Controlled assessment – 20 hours

This unit is internally assessed and externally moderated.

+

### **Unit A523: Making quality products**

This unit focuses on the design and manufacture of prototype products from a theme set by OCR (see Appendix A). This should involve the candidate in the identification of a suitable design opportunity, generation of design ideas showing creativity, trialling and skilful manufacture of a quality product, recording the key stages/processes of making and critical evaluation.

60 marks

30% of the total GCSE marks

Controlled assessment – 20 hours

This unit is internally assessed and externally moderated.

+

### **Unit A525: Sustainability and technical aspects of designing and making.**

This unit focuses on the knowledge, skills and understanding underpinning the design and manufacture of products.

80 marks

40% of the total GCSE marks

1 hour 30 mins 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 ingredients, equipment and design of products.

This unit is externally assessed.

### 1.3 Guided learning hours

GCSE Design and Technology: Food Technology requires 120–140 guided learning hours in total.

### 1.4 Aims and learning outcomes

GCSE specifications in Design and Technology should encourage candidates to be inspired, moved and challenged by following a broad, coherent, satisfying and worthwhile course of study and gain an insight into related sectors, such as manufacturing and engineering. They should prepare candidates to make informed decisions about further learning opportunities and career choices.

GCSE specifications in Design and Technology must enable candidates to:

- actively engage in the processes of Design and Technology to develop as effective and independent learners
- make decisions, consider sustainability and combine skills with knowledge and understanding in order to design and make quality products
- explore ways in which aesthetic, technical, economic, environmental, ethical and social dimensions interact to shape designing and making
- analyse existing products and produce practical solutions to needs, wants and opportunities, recognising their impact on quality of life
- develop decision-making skills through individual and collaborative working
- understand that designing and making reflect and influence cultures and societies, and that products have an impact on lifestyle
- develop skills of creativity and critical analysis through making links between the principles of good design, existing solutions and technological knowledge.

### 1.5 Prior learning/attainment

Candidates entering this course should have achieved a general educational level equivalent to National Curriculum Level 3, or an Entry Level 3 or Entry Level within the National Qualifications framework.



## 2.1 Unit A521: *Introduction to designing and making*

This unit focuses on:

- developing research and investigation skills
- developing drawing skills where appropriate
- modelling/trialling
- evaluating process.

This unit aims to give candidates an introduction to designing and making in food technology.

Candidates must select one of the published themes (see Appendix A) as a starting point for this controlled assessment unit. Once selected, the candidate will need to identify a starting point that is associated with the theme. For example, if the chosen theme is 'Special Diet' a candidate may decide to design and trial a product suitable for a coeliac. There must be a clear focus on nutrition in the work produced for this unit.

Candidates undertake research associated with the specific product before establishing their own design brief and detailed specification for an improved or similarly functioning product. They develop their design and use trialling and testing before making and testing their prototype\* and evaluating the making process. Throughout the task, the candidate will record research and design developments using a portfolio to include photographs and other digital media.

In order to skilfully design, trial, make and test their prototype\*, candidates should undertake the processes outlined overleaf.

This unit is a controlled assessment unit. For further details see Section 4.

*\*In this context a prototype is defined as the first example of a product that could be further developed or modified.*

**Candidates will be assessed on their ability to:**

Demonstrate cultural understanding	<ul style="list-style-type: none"> <li>• Identify how cultural issues have influence on food products.</li> <li>• Identify how wise food choices can affect healthy lifestyles.</li> </ul>
Demonstrate creativity	<ul style="list-style-type: none"> <li>• Use appropriate recording and drawing techniques including the use of ICT.</li> <li>• Identify complex associations linking principles of good design and technological knowledge.</li> <li>• Identify trends in existing products and fully evaluate them against the needs of the intended user.</li> </ul>
Develop designing skills	<ul style="list-style-type: none"> <li>• Produce an appropriate and considered response to a design brief.</li> <li>• Produce a detailed specification for the prototype.</li> <li>• Record creative design ideas using appropriate methods of presentation.</li> <li>• Use appropriate modelling/trialling techniques to aid product development.</li> <li>• Use ICT/nutritional analysis to support design development.</li> <li>• Record chosen design ideas using appropriate methods.</li> </ul>
Demonstrate good making skills	<ul style="list-style-type: none"> <li>• Plan and organise activities.</li> <li>• Make reasoned decisions about materials/components applying relevant nutritional data.</li> <li>• Select and use appropriate ingredients.</li> <li>• Select and use appropriate equipment.</li> <li>• Work hygienically and safely to produce a quality food prototype*.</li> <li>• Show economical consideration of waste.</li> <li>• Demonstrate a practical and thorough understanding of the methods and techniques used in the making of a prototype.</li> <li>• Use a wide range of skills to produce a quality prototype.</li> </ul>
Demonstrate critical evaluation skills	<ul style="list-style-type: none"> <li>• Evaluate the food prototype* through detailed testing against the design specification.</li> <li>• Present meaningful conclusions leading to suggestions for possible improvements.</li> </ul>

*\*In this context a prototype is defined as the first example of a product that could be further developed or modified.*

## 2.2 Unit A523: *Making quality products*

This unit focuses on:

- designing for a need
- working with tools and equipment
- making a product
- evaluating the product.

In this unit, candidates will further develop skills and abilities gained while undertaking Unit A521 in order to design and make a creative and quality product. Candidates must select one of the published themes (see Appendix A) as a starting point for this controlled assessment unit. The type of project selected needs to be challenging but realistic in terms of the resources and time available. Candidates should be encouraged to consider their own needs/requirements or those of an identified user group, as well as the situation in which the product will be used.

Candidates will be required to consider the focus of the design brief before developing a design specification. Candidates need to demonstrate their ability to plan, develop creative and original design ideas and carry out a range of practical activities.

Candidates will critically evaluate their ideas against the design specification to identify, with reasons, the chosen design proposal for product development. As a result of product development, candidates will give reasoned decisions for the ingredients and equipment required for the production of the final product. Throughout the task, the candidate will record design developments and production using a portfolio to include photographs and other digital media.

Candidates will test and critically evaluate their final product against a product specification.

This unit is a controlled assessment unit. See Section 4 for further details.

### Candidates will be assessed on their ability to:

Develop and demonstrate designing skills	<ul style="list-style-type: none"> <li>• Use appropriate recording and drawing techniques.</li> <li>• Identify complex associations linking principles of good design and technological knowledge.</li> <li>• Produce an appropriate and innovative response to a design brief.</li> <li>• Produce a detailed design specification for the product.</li> <li>• Use detailed notes and annotated drawings (where appropriate) to record creative design ideas.</li> <li>• Use appropriate techniques to aid product development.</li> <li>• Use ICT to support design development.</li> <li>• Apply knowledge of digital media and new technologies as appropriate.</li> <li>• Record chosen design idea using an appropriate method of presentation.</li> </ul>
Demonstrate good making/workshop skills	<ul style="list-style-type: none"> <li>• Plan, organise and record key activities throughout the portfolio to include photographic evidence.</li> <li>• Make reasoned decisions about ingredients/components.</li> <li>• Produce a detailed product specification.</li> <li>• Select and use appropriate ingredients.</li> <li>• Select and use appropriate tools and equipment.</li> <li>• Work hygienically and safely with a range of ingredients.</li> <li>• Show economical consideration of waste.</li> <li>• Demonstrate a practical and thorough understanding of the methods and techniques used in the making of products.</li> <li>• Use a wide range of skills to produce high-quality products.</li> </ul>
Demonstrate critical evaluation skills	<ul style="list-style-type: none"> <li>• Evaluate through detailed testing against the product specification.</li> <li>• Present meaningful conclusions leading to suggestions for possible improvements.</li> </ul>

### 2.3 Unit A525: Sustainability and technical aspects of designing and making

---

This unit focuses on:

- consideration of products
- consideration of the environment
- consideration of society and the economy
- working with tools and materials
- selecting processes
- designing for success.

---

This unit focuses on the knowledge, skills and understanding underpinning the design and manufacture of products made from food technology.

The assessment of this unit is through an externally set and externally marked test.

Candidates will need a knowledge and understanding of:

- trends and innovations in design and manufacture, labelling and packaging
- social, moral, cultural, economic, environmental and sustainability issues inherent in Design and Technology
- product life cycle and life cycle analysis (LCA)
- the composition, structure and properties of food
- the importance of a balanced diet and the application of current healthy eating recommendations
- designing and making quality manufactured products
- planning production with consideration of the use of time and resources
- performance characteristics of different ingredients
- tools and equipment, including new technologies, used to make quality manufactured products
- processes and techniques used to make quality manufactured products
- health and safety issues.

**Candidates will be assessed on their knowledge of:****The 6Rs****Recycle**

- The choice of packaging materials.
  - Materials used in the packaging of food products.
  - Recycling of tins, plastic, glass, card and paper.
  - Composting.
- 

**Reuse**

- Products that can be reused for either the same or a new purpose.
  - Reuse of leftover ingredients to make other food products.
- 

**Reduce**

- Reduce the effects on health by using balanced recipes, low in fat, salt and sugar.
  - Reduction in the use of processed foods.
  - Reduce energy in methods of cooking.
  - Transportation of food and materials. Eco Footprint.
  - Ways of reducing waste food.
  - Reduce the use of pesticides. Organic food production.
  - Buy products with little or no packaging.
- 

**Refuse**

- Issues relating to sustainable design in packaging.
  - Refuse high fat, salt and sugar foods.
- 

**Rethink**

- Rethink the average UK high-fat diet.
  - Examine the impact of food products on health.
  - Rethink the use of healthy ingredients in creative designs.
- 

**Repair**

- The function of nutrients in repairing and maintaining a healthy body.
  - Understand how to modify dishes to promote health through altering or substituting ingredients and/or by changing the method of cooking.
-

---

Product analysis and the design of products

### **Social issues**

- Evaluate their own and existing products to determine their sustainability for the intended user and their impact on the environment.
- Signs and symbols giving valuable information about materials and products and safety issues.
- Consideration of food trends, consumer preference, dietary needs, media influence and sustainability.
- Factors affect people's choice of food: availability, cost, personal preferences, cultural preferences, religion, lifestyle, health, storage and cooking facilities, recent food trends and issues, food scares, advertising and promotions, seasonability, local food sustainability.

---

### **Moral Issues**

- Fair trade products and their effect on the conditions of the workers.
- GM food production.
- Intensive/factory farming.
- Free-range production of foods.
- The use of additives in food products.
- Ethical Trading Initiative (ETI).

---

### **Cultural issues**

- The impact of different cultures on modern products.
- Use of local produce/farmers' markets.

---

### **Environmental Issues**

- Understand and be able to select ingredients/materials that are both suitable and sustainable.
- The use of seasonal foods.
- Carbon Footprint – transportation of materials and goods, energy usage in production and use. Life-cycle analysis.

---

### **Design Issues**

- Identify how good design and product choice improves the quality of life.
  - Examine the way that food manufacturers respond to changing styles, taste, technological advances and environmental pressures.
  - Evaluate commercially manufactured food products against moral, cultural, environmental and sustainability.
  - The impact of globalisation on ingredients/food products.
-

Nutrients	<ul style="list-style-type: none"> <li>• Candidates should develop a knowledge and understanding of the function, deficiencies and sources in the diet of: <ul style="list-style-type: none"> <li>- protein</li> <li>- fats</li> <li>- carbohydrates (sugar, starch, fibre)</li> <li>- vitamins (A B complex, C and D)</li> <li>- minerals (calcium, iron, sodium (salt) fluoride, phosphorus)</li> <li>- water.</li> </ul> </li> </ul>
Diet	<ul style="list-style-type: none"> <li>• The importance of a balanced diet and the application of current healthy eating recommendations.</li> <li>• The relationship between food intake and physical activity (energy balance).</li> </ul>
Special dietary needs	<ul style="list-style-type: none"> <li>• Food products aimed at different age groups and people with different dietary requirements: <ul style="list-style-type: none"> <li>- diabetics</li> <li>- vegetarians</li> <li>- coeliacs (gluten)</li> <li>- calorie controlled</li> <li>- those with allergies to nuts</li> <li>- heart disease (CHD)</li> <li>- pregnancy.</li> </ul> </li> </ul>
Food commodities	<ul style="list-style-type: none"> <li>• The nutrients found in and the structure of a range of common foods: cereals, fruit, vegetables, meat, fish, cheese, fats and oils, milk, eggs and alternative protein foods.</li> </ul>
Function of ingredients	<ul style="list-style-type: none"> <li>• Function of ingredients in a range of products: flour, sugar, fats/oils, eggs.</li> <li>• Use of raising agents, additives and the fortification of foods.</li> <li>• Use of standard and pre-manufactured components.</li> </ul>



---

## Processes

---

### Processes and skills

Candidates should have knowledge and understanding of a range of processes used to make products and have the opportunity to use the following skills and processes in their practical work:

- heat transference through appropriate methods of cooking: boiling, baking, grilling, microwaving, steaming, frying, roasting
- the effect of heat on different foods
- baked products: rubbing in, creaming, melting, whisking, all-in-one, kneading, folding, rolling, shaping, cutting
- sauce making – roux, blended, all-in-one – in a range of sweet and savoury products
- fruit and vegetable preparation, which could include soup-making, desserts, vegetarian dishes
- preparation of meat, fish, dairy products and alternative protein foods
- cooking and preparation of staple foods
- finishing techniques: garnishing, glazing, decorating of food products.

---

### Tools and equipment

- Select and safely use tools and equipment appropriately.
- Be aware of alternative tools and equipment which can be used for the same task.

---

### Preservation and extending shelf life

- Safe shelf life for a food product.
- Methods used to increase shelf life including freezing, chilling, cook chill, modified atmospheric packaging (MAP), UHT, canning, dehydration, vacuum packaging.

---

### Health and safety

- Use a range of tools and equipment in a safe and efficient way.
  - Consider risk assessment (HACCP) and quality control.
  - Importance of safe and hygienic practices in the preparation, cooking, transportation and storage of food.
  - Food Hygiene legislation to include food labelling.
  - Role of the Environmental Health Officer.
-

Industrial production	<ul style="list-style-type: none"> <li>• CAD/CAM as used in Food Technology.</li> <li>• Commercial food production methods: <ul style="list-style-type: none"> <li>- job/craft</li> <li>- batch production</li> <li>- mass production</li> <li>- continuous flow.</li> </ul> </li> <li>• Importance of Quality Assurance and Quality Control.</li> <li>• Be aware of developments and the impact of nanotechnology/nanomaterials in the Food Industry as they emerge, for example changes in packaging to improve shelf life, developments to improve the taste, colour and texture of food.</li> </ul>
Design process	<ul style="list-style-type: none"> <li>• Identification of the design need.</li> <li>• Identify the users and the market for the intended product.</li> <li>• Develop a design brief.</li> <li>• Develop a design specification.</li> <li>• Generate, record and model design ideas, understanding the relevance of function and aesthetics (taste, texture and appearance).</li> </ul>
Product development	<ul style="list-style-type: none"> <li>• Being able to match ingredients and components with tools, equipment and processes when deciding how to make the product.</li> </ul>
Product planning	<ul style="list-style-type: none"> <li>• Develop a product specification.</li> <li>• Critically evaluate products and suggest modifications.</li> <li>• Sensory analysis including rating/ranking. Record results in appropriate ways (star profiles and charts).</li> </ul>
Product analysis	<ul style="list-style-type: none"> <li>• Determine the suitability of a product for an intended market.</li> <li>• Understand the choice of ingredients and components in a range of products.</li> <li>• Understand the processes used to make products.</li> </ul>

### Delivery of the Unit

In this unit, candidates could develop their knowledge and understanding through:

- group discussion, videos, industrial visits, supermarket surveys. Research could involve the internet, interviews, questionnaires, experimental work
- focused practical tasks that develop a range of technical skills and knowledge of sustainability, materials and processes
- product analysis
- design-and-make assignments that include activities relating to sustainability of products and resources as well as industrial practices.

These tasks will vary in nature; some will be based around group discussion, videos, industrial visits, supermarket surveys. Research could involve the internet, interviews, questionnaires, experimental work, taste testing.

Candidates should have the opportunity to develop a wide range of practical skills.

## 3.1 Assessment in GCSE Design and Technology: Food Technology

For GCSE Design and Technology: Food Technology candidates must take all **three** units.

### Unit A521: *Introduction to designing and making*

30% of the total GCSE

Controlled assessment

Approx 20 hours

60 marks

Quality of written communication is assessed in this unit (see Section 3.5).

The task will require the candidate to produce:

- a portfolio (A3/A4 size sheets or digital equivalent) showing design development, trialling and evaluating including annotations of ingredients, equipment and working practices used. This may include the use of ICT to support the designing process.
- a design specification
- a prototype product that can be evaluated
- digital images/photographs of any testing, trialling or evaluating to exemplify key stages, ingredients and techniques used by the candidate when designing
- digital images/photographs showing sufficient detail of the prototype and the quality of the finished product
- a completed OCR cover sheet.

Tasks will be conducted under informal supervision within tight guidelines specified by OCR (see Section 4).

Teachers are required to ensure that candidates do not pursue the same theme for their work as submitted or intended for submission for Unit A523.

In addition to the formal 20 hours there should also be further teaching time to increase depth and knowledge and understanding before starting the controlled assessment.

The task must allow the candidate to:

- develop and use research and investigation skills
- develop drawing skills where appropriate
- use trialling
- produce a prototype
- evaluate the process.

Candidates must use appropriate ICT to help with their work. This might include CAD/CAM, data analysis and ICT-based sources for research and design relevant to the task.

It is not expected that the prototype product should accompany the portfolio during the external moderation process.

This controlled assessment is marked internally and externally moderated.

### Unit A523: *Making quality products*

30% of the total GCSE  
Controlled assessment  
Approx 20 hours  
60 marks  
Quality of written communication is assessed in this unit (see Section 3.5).

The task will require the candidate to produce:

- a portfolio (A3/A4 size sheets or equivalent) showing design development, modelling, trialling and evaluating including annotations of ingredients, equipment and working practices used. This may include the use of ICT to support the designing process. may include the use of ICT to support the designing process.
- a design specification
- a product that can be evaluated
- digital images/photographs of any testing, trialling or evaluating to exemplify key stages, ingredients and techniques used by the candidate when designing
- digital images/photographs showing sufficient detail of the prototype and the quality of the final product
- a completed OCR cover sheet.

Tasks will be conducted under informal supervision within tight guidelines specified by OCR (see Section 4).

Teachers are required to ensure that candidates do not pursue the same theme for their work as submitted or intended for submission for Unit A521.

In addition to the formal 20 hours there should also be further teaching time to increase depth and knowledge and understanding before starting the controlled assessment.

The task must allow the candidate to:

- design for a need
- work with tools and equipment
- make a product
- evaluate the product.

Candidates must use appropriate ICT to help with their work. This might include CAD/CAM, data analysis and ICT-based sources for research and design relevant to the task.

It is not expected that the final product should accompany the portfolio during the external moderation process.

This controlled assessment is marked internally and externally moderated.

### Unit A525: *Sustainability and technical aspects of designing and making*

40% of the total GCSE  
1 hour 30 mins written paper  
80 marks  
Quality of written communication is assessed in this unit (see Section 3.5).

The paper will consist of questions that focus on sustainability and technical aspects of designing and making.

**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 ingredients, equipment and design of products.

This unit is externally assessed.

## 3.2 Assessment Objectives (AOs)

Candidates are expected to demonstrate their ability to:

<b>AO1</b>	Recall, select and communicate their knowledge and understanding in Design and Technology including its wider effects.
<b>AO2</b>	Apply knowledge, understanding and skills in a variety of contexts and in designing and making products.
<b>AO3</b>	Analyse and evaluate products, including their design and production.

### 3.2.1 AO weightings – GCSE Design and Technology: Food Technology

The relationship between the units and the assessment objectives of the scheme of assessment is shown in the following grid:

Unit	% of GCSE			Total
	AO1	AO2	AO3	
Unit A521: <i>Introduction to designing and making</i>	8	18	4	30%
Unit A523: <i>Making quality products</i>	0	25	5	30%
Unit A525: <i>Sustainability and technical aspects of designing and making</i>	26	7	7	40%
Total	34%	50%	16%	100%

For GCSE Design and Technology: Food Technology candidates must take all three units

## 3.3 Grading and awarding grades

GCSE results are awarded on the scale A\* to G. Units are awarded a\* to g. Grades are indicated on certificates. However, results for candidates who fail to achieve the minimum grade (G or g) will be recorded as *unclassified* (U or u) and this is **not** certificated.

Most GCSEs are unitised schemes. When working out candidates' overall grades OCR needs to be able to compare performance on the same unit in different series when different grade boundaries may have been set, and between different units. OCR uses a Uniform Mark Scale to enable this to be done.

A candidate's uniform mark for each unit is calculated from the candidate's raw mark on that unit. The raw mark boundary marks are converted to the equivalent uniform mark boundary. Marks between grade boundaries are converted on a pro rata basis.

When unit results are issued, the candidate's unit grade and uniform mark are given. The uniform mark is shown out of the maximum uniform mark for the unit, e.g. 40/60.

The specification is graded on a Uniform Mark Scale. The uniform mark thresholds for each of the assessments are shown below:

(GCSE) Unit Weighting	Maximum Unit Uniform Mark	Unit Grade								
		a*	a	b	c	d	e	f	g	u
30%	60	54	48	42	36	30	24	18	12	0
40%	80	72	64	56	48	40	32	24	16	0

A candidate's uniform marks for each unit are aggregated and grades for the specification are generated on the following scale:

Qualification	Max Uniform Mark	Qualification Grade								
		A*	A	B	C	D	E	F	G	U
GCSE	200	180	160	140	120	100	80	60	40	0

The written paper will have a total weighting of 40% and controlled assessment a weighting of 60%.

A candidate's uniform mark for each paper will be combined with the uniform marks for the controlled assessments to give a total uniform mark for the specification. The candidate's grade will be determined by the total uniform mark.

### 3.4 Grade descriptions

Grade descriptions are provided to give a general indication of the standards of achievement likely to have been shown by candidates awarded particular grades. The descriptions must be interpreted in relation to the content in the specification; they are not designed to define that content. The grade awarded will depend in practice upon the extent to which the candidate has met the assessment objectives overall. Shortcomings in some aspects of the assessment may be balanced by better performance in others.

The grade descriptors have been produced by the regulatory authorities in collaboration with the awarding bodies.

#### 3.4.1 Grade F

Candidates recall, select and communicate knowledge and understanding of basic aspects of Design and Technology, including its wider effects.

They apply limited knowledge, understanding and skills to plan and carry out simple investigations and tasks, with an awareness of the need for safety and precision. They modify their approach in the light of progress.

They review their evidence and draw basic conclusions.

#### 3.4.2 Grade C

Candidates recall, select and communicate sound knowledge and understanding of Design and Technology, including its wider effects.

They apply knowledge, understanding and skills in a range of situations to plan and carry out investigations and tasks. They test their solutions, working safely and with precision.

They review the evidence available, analysing and evaluating some information clearly, and with some accuracy. They make judgements and draw appropriate conclusions.

### 3.4.3 Grade A

Candidates recall, select and communicate detailed knowledge and thorough understanding of Design and Technology, including its wider effects.

They apply relevant knowledge, understanding and skills in a range of situations to plan and carry out investigations and tasks effectively. They test their solutions, working safely and with a high degree of precision.

They analyse and evaluate the evidence available, reviewing and adapting their methods when necessary. They present information clearly and accurately, making reasoned judgements and presenting substantiated conclusions.

## 3.5 Quality of written communication

Quality of written communication is assessed in all units.

Candidates are expected to:

- ensure that text is legible and that spelling, punctuation and grammar are accurate so that meaning is clear
- use technical language as appropriate
- present information in a form that suits its purpose
- use an appropriate style of writing and, where applicable, specialist terminology.

This section provides general guidance on controlled assessment: what controlled assessment tasks are, when and how they are available; how to plan and manage controlled assessment and what controls must be applied throughout the process. More support can be found on the [OCR website](#).

### Teaching and Learning

Controlled assessment is designed to be an integral part of teaching and learning. Activities which develop skills take place regularly in the classroom/workshop using a variety of appropriate resources (as chosen by the teacher). These opportunities allow candidates to practise a wide range of tasks, and teachers can discuss and comment on performance as appropriate. There are no restrictions regarding time or feedback to individual candidates.

When all necessary teaching and learning has taken place and teachers feel that candidates are ready for assessment, candidates can be given the/should choose an appropriate controlled assessment task.

### 4.1 Controlled assessment tasks

All controlled assessment tasks for units A521 and A523 are set by OCR. (See appendix A)

Controlled assessment tasks will be available on Interchange and will be reviewed every two years. Guidance on how to access controlled assessment tasks from Interchange is available on the [OCR website](#).

Centres must ensure that candidates undertake a task applicable to the correct year of the examination.

Centres can choose one from a number of theme based tasks offered by OCR. These tasks can be used with a minimum amount of adaptation or they can be adapted so that they allow the usage of local resources available to any centre. These tasks may also be set within overarching scenarios and briefs more relevant to centres' own environment and targeted at their particular cohorts of candidates.

Each controlled assessment theme (see Appendix A) includes a number of starting points which indicate the type and degree of contextualisation that is allowed. Controlled assessment themes **must not** be changed by centres. When contextualising starting points centres must be careful not to make changes which could put at risk the opportunity for candidates to meet the assessment criteria, including the chance to gain marks at the highest level.

The same OCR controlled assessment task must NOT be used as practice material and then as the actual live assessment material. Centres should devise their own practice material using the OCR specimen controlled assessment materials as guidance.

Teachers **can**:

- explain the task
- advise on how the task could be approached
- advise on resources
- alert the candidate to key things that must be included in the final piece of work



Teachers **must not**:

- comment on or correct the work
- practise the task with the candidates
- provide templates, model answers or feedback on drafts.

## 4.2 Planning and managing controlled assessment

Controlled assessment tasks are available at an early stage to allow planning time. It is anticipated that candidates will spend a total of about 20 hours in producing the work for unit A521 and about 20 hours in producing the work for unit A523. Candidates should be allowed sufficient time to complete the tasks.

Suggested steps are included below, with guidance on regulatory controls at each step of the process. Teachers must ensure that the control requirements indicated below are met throughout the process.

### 4.2.1 Preparation and research time

#### Preparation (informal supervision)

Informal supervision ensures that the work of the individual candidates is recorded accurately and that plagiarism does not take place. Assessable outcomes may be informed by group work, but must be an individual response.

- Introduction to the task (teacher led) **1 hour**

Includes choice of tasks, possible approaches and sources of evidence, time allocations, programmes of work and deadlines, methods of working, control requirements.

#### Research (limited supervision)

Limited supervision means that candidates can undertake this part of the process without direct teacher supervision and outside the centre as required. Candidates are also able to work in collaboration during this stage. However, when producing their final piece of work, candidates must complete and/or evidence all work individually.

During the research phase candidates can be given support and guidance.

Research material can include fieldwork, internet or paper-based research, questionnaires, audio and video files etc. Candidates must be guided on the use of information from other sources to ensure that confidentiality and intellectual property rights are maintained at all times. It is essential that any material directly used from a source is appropriately and rigorously referenced.

### 4.2.2 Producing the final piece of work (formal supervision)

Formal supervision means under direct teacher supervision: the teacher must be able to authenticate the work and insist on acknowledgement and referencing of any sources used. Writing up is likely to be carried out over several sessions. Work must be collected and kept secure between sessions.

When supervising tasks, teachers are expected to:

- exercise continuing supervision of work in order to monitor progress and to prevent plagiarism
- exercise continuing supervision of practical work to ensure essential compliance with Health and Safety requirements
- ensure that the work is completed in accordance with the specification requirements and can be assessed in accordance with the specified marking criteria and procedures.

Candidates must work independently to produce their own final piece of work.

### 4.2.3 Presentation of the final piece of work

Candidates must observe the following procedures when producing their final piece of work for the controlled assessment tasks:

- tables, graphs and spreadsheets may be produced using appropriate ICT. These should be inserted into the report at the appropriate place
- any copied material must be suitably acknowledged
- quotations must be clearly marked and a reference provided wherever possible
- work submitted for moderation or marking must include a coversheet giving the following information:
  - centre number
  - centre name
  - candidate number
  - candidate name
  - unit code and title
  - assignment title.

Work submitted in digital format (CD or online) for moderation or marking must be in a suitable file structure as detailed in (Appendix B) at the end of this specification. Work submitted on paper must be secured by treasury tags or other suitable methods.

## 4.3 Marking and moderating controlled assessment

All controlled assessment units are marked by the centre assessor(s) using OCR marking criteria and guidance and are moderated by the OCR-appointed moderator. External moderation is either e-moderation where evidence is online or postal moderation.

### 4.3.1 Applying the marking criteria

The starting point for marking the tasks is the marking criteria (see section 4.3.4 *Marking criteria for controlled assessment* tasks). The criteria identify levels of performance for the skills, knowledge and understanding that the candidate is required to demonstrate. Before the start of the course, and for use at INSET training events, OCR provides exemplification through real or simulated candidate work which will help to clarify the level of achievement the assessors should be looking for when awarding marks.

### 4.3.2 Use of 'best fit' approach to marking criteria

The assessment task(s) for each unit should be marked by teachers according to the given marking criteria within the relevant unit using a 'best fit' approach. For each of the assessment criteria, teachers select one of the three band descriptors provided in the marking grid that most closely describes the quality of the work being marked.

Marking should be positive, rewarding achievement rather than penalising failure or omissions. The award of marks **must be** directly related to the marking criteria.

Teachers use their professional judgement in selecting the band descriptor that best describes the work of the candidate.

To select the most appropriate mark within the band descriptor, teachers should use the following guidance:

- where the candidate's work *convincingly* meets the statement, the highest mark should be awarded
- where the candidate's work *adequately* meets the statement, the most appropriate mark in the middle range should be awarded
- where the candidate's work *just* meets the statement, the lowest mark should be awarded.

Teachers should use the full range of marks available to them and award *full* marks in any band for work which fully meets that descriptor. This is work which is 'the best one could expect from candidates working at that level'. Where there are only two marks within a band the choice will be between work which, in most respects, meets the statement and work which just meets the statement. For wider mark bands the marks on either side of the middle mark(s) for 'adequately met' should be used where the standard is lower or higher than 'adequate' but **not** the highest or lowest mark in the band.

Only one mark per assessment criteria will be entered. The final mark for the candidate for the controlled assessment unit is out of a total of 60 and is found by totalling the marks for each of the marking criteria strands.

There should be clear evidence that work has been attempted and some work produced. If a candidate submits no work for the internally assessed units, then the candidate should be indicated as being absent from that unit. If a candidate completes any work at all for an internally assessed unit, then the work should be assessed according to the marking criteria and the appropriate mark awarded, which may be zero.

### 4.3.3 Annotation of candidates' work

Each piece of internally assessed work should show how the marks have been awarded in relation to the marking criteria.

The writing of comments on candidates' work, and coversheet, provides a means of communication between teachers during the internal standardisation and with the moderator if the work forms part of the moderation sample.

#### 4.3.4 Marking criteria for controlled assessment tasks

##### Marking Criteria for Controlled Assessment: Unit A521

0 marks = no response or no response worthy of credit

##### Unit A521: CULTURAL UNDERSTANDING

Basic ability	Sound ability	High ability
<ul style="list-style-type: none"> <li>Uses limited examples to demonstrate a basic understanding of how cultural issues have influenced the range of food products available today.</li> <li>Identifies using limited examples how wise choice of food products can promote healthy lifestyles.</li> </ul>	<ul style="list-style-type: none"> <li>Uses some examples to demonstrate a sound understanding of how cultural issues have influenced the range of food products available today.</li> <li>Identifies, using sound examples, how wise choice of food products can promote healthy lifestyles.</li> </ul>	<ul style="list-style-type: none"> <li>Uses a wide range of effective examples to demonstrate a thorough understanding of how cultural issues have influenced the range of food products available today. (AO2)</li> <li>Identifies and compares using detailed examples how wise choice of food products can promote healthy lifestyles. (AO2)</li> </ul>
[1]	[2 – 3]	[4 – 5]

##### Units A521: CREATIVITY

Basic ability	Sound ability	High ability
<ul style="list-style-type: none"> <li>Identifies basic links between principles of good design and technological knowledge.</li> <li>Identifies existing products with a basic evaluation of the needs of the intended user.</li> </ul>	<ul style="list-style-type: none"> <li>Identifies sound links between principles of good design and technological knowledge.</li> <li>Identifies existing products with a sound evaluation of the needs of the intended user.</li> </ul>	<ul style="list-style-type: none"> <li>Identifies complex links between principles of good design and technological knowledge. (AO1)</li> <li>Identifies and thoroughly evaluates existing products against the needs of the intended user. (AO1)</li> </ul>
[1]	[2 – 3]	[4 – 5]

## Unit A521: DESIGNING

Basic ability	Sound ability	High ability
<ul style="list-style-type: none"> <li>• Produces a basic specification for the prototype using results from research and a brief.</li> <li>• Records design ideas using basic techniques.</li> <li>• Applies basic trialling procedures with limited success.</li> <li>• Makes basic decisions with limited explanation about the ingredients and equipment for the prototype.</li> </ul>	<ul style="list-style-type: none"> <li>• Produces a sound specification for the prototype using results from research and a brief.</li> <li>• Records creative design ideas through sound techniques.</li> <li>• Applies trialling procedures with some success.</li> <li>• Makes decisions with sound explanation about ingredients and equipment and any changes that need to be made to the prototype.</li> </ul>	<ul style="list-style-type: none"> <li>• Produces a detailed specification for the prototype using results from research and a brief. (AO2)</li> <li>• Records creative and innovative design ideas using comprehensive techniques. (AO2)</li> <li>• Applies detailed trialling procedures successfully. (AO2)</li> <li>• Makes consistently reasoned decisions with detailed explanation about ingredients and equipment and any changes that need to be made to the prototype. (AO3)</li> </ul>
<b>[1– 4]</b>	<b>[5 – 10]</b>	<b>[11 – 14]</b>

## Unit A521: MAKING

Basic ability	Sound ability	High ability
<ul style="list-style-type: none"> <li>Plans and organises basic activities.</li> <li>Selects and uses ingredients that are not always appropriate.</li> <li>Selects and uses equipment that is not always appropriate.</li> <li>Works safely and hygienically with limited competence.</li> <li>Prepares, shapes, forms, mixes, assembles and finishes a prototype that exhibits a basic quality of outcome. (photographic evidence)</li> </ul>	<ul style="list-style-type: none"> <li>Plans and organises sound activities.</li> <li>Selects and uses ingredients that are mostly appropriate.</li> <li>Selects and uses equipment that is mostly appropriate.</li> <li>Works safely and hygienically with a sound level of competence.</li> <li>Prepares, shapes, forms, mixes, assembles and finishes a prototype that exhibits a good quality of outcome.(photographic evidence)</li> </ul>	<ul style="list-style-type: none"> <li>Plans and organises complex activities.</li> <li>Selects and uses ingredients that are consistently appropriate. (AO2)</li> <li>Selects and uses equipment that is consistently appropriate. (AO2)</li> <li>Consistently works safely and hygienically with a high level of competence. (AO2)</li> <li>Prepares, shapes, forms, mixes, assembles and finishes a prototype that exhibits a high quality outcome. (photographic evidence) (AO2)</li> </ul>
<b>[1 – 6]</b>	<b>[7 – 13]</b>	<b>[14 – 20]</b>
<ul style="list-style-type: none"> <li>Applies limited nutritional knowledge to design ideas with limited, if any, suggestions for possible modifications to design ideas.</li> </ul>	<ul style="list-style-type: none"> <li>Applies sound nutritional knowledge to suggest a range of possible modifications to design ideas.</li> </ul>	<ul style="list-style-type: none"> <li>Applies detailed nutritional knowledge to suggest a wide range of possible modifications to design ideas. (AO1)</li> </ul>
<b>[1]</b>	<b>[2 – 3]</b>	<b>[4]</b>
<ul style="list-style-type: none"> <li>Produces a basic flowchart that does not always include all key stages for the completed prototype.</li> </ul>	<ul style="list-style-type: none"> <li>Produces a flowchart that includes all key stages for the completed prototype.</li> </ul>	<ul style="list-style-type: none"> <li>Produces a detailed flowchart that specifies an effective order of sequences for the completed prototype. (AO2)</li> </ul>
<b>[1]</b>	<b>[2 – 3]</b>	<b>[4]</b>

## Unit A521: CRITICAL EVALUATION

Basic ability	Sound ability	High ability
<ul style="list-style-type: none"> <li>• Basic evaluation through superficial testing.</li> <li>• Limited use of specialist terms.</li> <li>• Answers may be ambiguous or disorganised.</li> <li>• Errors of spelling, punctuation and grammar may be intrusive.</li> </ul>	<ul style="list-style-type: none"> <li>• Sound evaluation through testing leading to a possible improvement(s).</li> <li>• Some use of specialist terms, although these may not always be used appropriately.</li> <li>• Information presented for the most part in a structured format.</li> <li>• Occasional errors in spelling, punctuation and grammar that do not impede communication.</li> </ul>	<ul style="list-style-type: none"> <li>• Critical evaluation through detailed testing that is consistently relevant and includes meaningful conclusions leading to suggestions for possible improvements. (AO3)</li> <li>• Specialist terms consistently used appropriately and correctly.</li> <li>• Information consistently presented in a structured format.</li> <li>• Consistently accurate use of spelling, punctuation and grammar.</li> </ul>
<b>[1 – 2]</b>	<b>[3 – 5]</b>	<b>[6 – 8]</b>



### Marking Criteria for Controlled Assessment: Unit A523

**0 marks = no response or no response worthy of credit**

#### Unit A523: DESIGNING

Basic ability	Sound ability	High ability
<ul style="list-style-type: none"> <li>Produces a basic specification for the chosen design brief.</li> </ul> <p style="text-align: center;"><b>[1]</b></p>	<ul style="list-style-type: none"> <li>Produces a sound specification for the chosen design brief.</li> </ul> <p style="text-align: center;"><b>[2 – 3]</b></p>	<ul style="list-style-type: none"> <li>Produces a detailed specification for the chosen design brief. (AO2)</li> </ul> <p style="text-align: center;"><b>[4]</b></p>
<ul style="list-style-type: none"> <li>Produces basic design ideas and communicates these by using a limited range of strategies.</li> <li>Unsupported design proposal due to a basic evaluation.</li> <li>Applies basic trialling procedures.</li> </ul> <p style="text-align: center;"><b>[1 – 5]</b></p>	<ul style="list-style-type: none"> <li>Produces a range of creative design ideas and communicates these by using a range of strategies.</li> <li>Design proposal chosen as a result of a sound evaluation.</li> <li>Applies sound trialling procedures.</li> </ul> <p style="text-align: center;"><b>[6 – 8]</b></p>	<ul style="list-style-type: none"> <li>Produces a wide range of creative and innovative design ideas and communicates these by using a range of strategies. (AO2)</li> <li>Design proposal chosen as a result of a detailed evaluation. (AO3/AO2)</li> <li>Applies detailed trialling procedures.</li> </ul> <p style="text-align: center;"><b>[9 – 12]</b></p>

## Unit A523: MAKING/TRIALLING/PRODUCT DEVELOPMENT

Basic ability	Sound ability	High ability
<ul style="list-style-type: none"> <li>• Plans and organises basic activities.</li> <li>• Selects and uses ingredients that are not always appropriate.</li> <li>• Selects and uses equipment that is not always appropriate.</li> <li>• Works safely and hygienically with limited competence.</li> <li>• Prepares, shapes, forms, mixes, assembles and finishes basic food products that exhibit a basic quality outcome. (photographic evidence)</li> <li>• Applies basic trialling procedures during product development with limited, if any, suggestions for possible modifications.</li> </ul>	<ul style="list-style-type: none"> <li>• Plans and organises sound activities.</li> <li>• Selects and uses ingredients that are mostly appropriate.</li> <li>• Selects and uses equipment that is mostly appropriate.</li> <li>• Works safely and hygienically with a sound level of competence.</li> <li>• Prepares, shapes, forms, mixes, assembles and finishes sound food products that exhibit a good quality outcome. (photographic evidence)</li> <li>• Applies sound trialling procedures to suggest a range of possible modifications during product development.</li> </ul>	<ul style="list-style-type: none"> <li>• Organises complex activities.</li> <li>• Selects and uses ingredients that are consistently appropriate.</li> <li>• Selects and uses equipment that are consistently appropriate.(AO2)</li> <li>• Works consistently safely and hygienically with a high level of competence. (AO2)</li> <li>• Prepares, shapes, forms, mixes, assembles and finishes excellent food products that exhibit a high quality outcome. (photographic evidence) (AO2)</li> <li>• Applies detailed trialling procedures to suggest a wide range of possible modifications during product development. (AO2)</li> </ul>
<b>[1– 9]</b>	<b>[10 – 17]</b>	<b>[18 – 24]</b>

## Unit A523: FINAL PRODUCT INFORMATION

Basic ability	Sound ability	High ability
<ul style="list-style-type: none"> <li>Makes basic decisions about ingredients and equipment.</li> <li>Produces a basic product specification.</li> </ul>	<ul style="list-style-type: none"> <li>Makes sound decisions about ingredients and equipment.</li> <li>Produces a sound product specification.</li> </ul>	<ul style="list-style-type: none"> <li>Makes reasoned decisions about ingredients and equipment. (AO2/AO3)</li> <li>Produces a detailed product specification. (AO2)</li> </ul>
<b>[1 – 2]</b>	<b>[3 – 4]</b>	<b>[5 – 6]</b>
<ul style="list-style-type: none"> <li>Produces a basic forward plan for the trialling of design ideas.</li> <li>Produces a basic flowchart for the final product that does not always include all key stages for the final product.</li> </ul>	<ul style="list-style-type: none"> <li>Produces a sound forward plan for the trialling of design ideas.</li> <li>Produces a flowchart that includes all key stages for the final product.</li> </ul>	<ul style="list-style-type: none"> <li>Produces a detailed forward plan for the trialling of design ideas. (AO2)</li> <li>Produces a detailed flowchart that includes all key stages and specifies an effective order of sequences for the final product. (AO2)</li> </ul>
<b>[1 – 2]</b>	<b>[3 – 4]</b>	<b>[5 – 6]</b>

## Unit A523: CRITICAL EVALUATION

Basic ability	Sound ability	High ability
<ul style="list-style-type: none"> <li>• Basic evaluation of the finished product with limited reference to the product specification.</li> <li>• Undertakes basic testing with limited reflection on how to improve the product.</li> <li>• Limited use of specialist terms.</li> <li>• Answers may be ambiguous or disorganised.</li> <li>• Errors of spelling, punctuation and grammar may be intrusive.</li> </ul>	<ul style="list-style-type: none"> <li>• Sound evaluation of the finished product with reference to the product specification.</li> <li>• Undertakes some testing and is able to reflect on how to improve the product.</li> <li>• Some use of specialist terms, although these may not always be used appropriately.</li> <li>• Information will be presented for the most part in a structured format.</li> <li>• Occasional errors in spelling, punctuation and grammar that do not impede communication.</li> </ul>	<ul style="list-style-type: none"> <li>• Critical evaluation of the finished product with thorough reference to the product specification. (AO3)</li> <li>• Undertakes thorough testing and presents meaningful conclusions leading to detailed proposals for modifications to improve the product. (AO3)</li> <li>• Specialist terms consistently used appropriately and correctly.</li> <li>• Information consistently presented in a structured format.</li> <li>• Consistently accurate use of spelling, punctuation and grammar.</li> </ul>
<b>[1 – 2]</b>	<b>[3 – 5]</b>	<b>[6 – 8]</b>

### 4.3.5 Authentication of work

Teachers must be confident that the work they mark is the candidate's own. This does not mean that a candidate must be supervised throughout the completion of all work but the teacher must exercise sufficient supervision, or introduce sufficient checks, to be in a position to judge the authenticity of the candidate's work.

Wherever possible, the teacher should discuss work-in-progress with candidates. This will not only ensure that work is underway in a planned and timely manner but will also provide opportunities for assessors to check authenticity of the work and provide general feedback.

Candidates must not plagiarise. Plagiarism is the submission of another's work as one's own and/or failure to acknowledge the source correctly. Plagiarism is considered to be malpractice and could lead to the candidate being disqualified. Plagiarism sometimes occurs innocently when candidates are unaware of the need to reference or acknowledge their sources. It is therefore important that centres ensure that candidates understand that the work they submit must be their own and that they understand the meaning of plagiarism and what penalties may be applied. Candidates may refer to research, quotations or evidence but they must list their sources. The rewards from acknowledging sources, and the credit they will gain from doing so, should be emphasised to candidates as well as the potential risks of failing to acknowledge such material. Candidates may be asked to sign a declaration to this effect. Centres should reinforce this message to ensure candidates understand what is expected of them.

**Please note:** Centres must confirm to OCR that the evidence produced by candidates is authentic. The Centre Authentication Form includes a declaration for assessors to sign and is available from the [OCR website](#) and [OCR Interchange](#).

### 4.3.6 Internal standardisation

It is important that all internal assessors, working in the same subject area, work to common standards. Centres must ensure that the internal standardisation of marks across assessors and teaching groups takes place using an appropriate procedure.

This can be done in a number of ways. In the first year, reference material and OCR training meetings will provide a basis for centres' own standardisation. In subsequent years, this, or centres' own archive material, may be used. Centres are advised to hold preliminary meetings of staff involved to compare standards through cross-marking a small sample of work. After most marking has been completed, a further meeting at which work is exchanged and discussed will enable final adjustments to be made.

### 4.3.7 Moderation

All work for controlled assessment is marked by the teacher and internally standardised by the centre. Marks are then submitted to OCR, after which moderation takes place in accordance with OCR procedures: refer to the OCR website for submission dates of the marks to OCR. The purpose of moderation is to ensure that the standard of the award of marks for work is the same for each centre and that each teacher has applied the standards appropriately across the range of candidates within the centre.

Each candidate's work should have a cover sheet attached to it with a summary of the marks awarded for the task in relation to the marking criteria defined in Section 4.3.4. If the work is to be submitted in digital format, this cover sheet should also be submitted electronically within each candidate's files.

#### 4.4 Submitting the moderation samples via the OCR Repository

The OCR Repository is a secure website for centres to upload candidate work and for assessors to access this work digitally. Centres can use the OCR Repository for uploading marked candidate work for moderation.

Centres can access the OCR Repository via OCR Interchange, find their candidate entries in their area of the Repository, and use the Repository to upload files (singly or in bulk) for access by their moderator.

The OCR Repository allows candidates to send evidence in electronic file types that would normally be difficult to submit through postal moderation; for example multimedia or other interactive unit submissions.

There are three ways to load files to the OCR Repository:

- 1 Centres can load multiple files against multiple candidates by clicking on 'Upload candidate files' in the Candidates tab of the Candidate Overview screen.
- 2 Centres can load multiple files against a specific candidate by clicking on 'Upload files' in the Candidate Details screen.
- 3 Centres can load multiple administration files by clicking on 'Upload admin files' in the Administration tab of the Candidate Overview screen.

The OCR Repository is seen as a faster, greener and more convenient means of providing work for assessment. It is part of a wider programme bringing digital technology to the assessment process, the aim of which is to provide simpler and easier administration for centres.

Instructions for how to upload files to OCR using the OCR Repository can be found on [OCR Interchange](#).

The OCR GCSE Design and Technology: Food Technology units A521 and A523 can be submitted electronically to the OCR Repository via Interchange. Please check Section 7.4.1 for unit entry codes for the OCR Repository.

## 5.1 Free resources available from the OCR website

The following materials will be available on the OCR website:

- GCSE Design and Technology: Food Technology Specification
- [specimen assessment materials for each unit](#)
- [Guide to controlled assessment](#)
- [Teachers Handbook](#)
- [sample schemes of work and lesson plans.](#)

## 5.2 Other resources

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

### 5.2.1 Publisher partners

OCR works in close collaboration with publisher partners to ensure you have access to:

- published support materials available when you need them, tailored to OCR specifications
- high quality resources produced in consultation with OCR subject teams, which are linked to OCR's teacher support materials.

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

Hodder Education produces the following resources for OCR GCSE Design and Technology: Food Technology:

- OCR Design and Technology for GCSE: Food Technology Teacher Resource DVD-ROM  
by Barbara DiNicoli, Meryl Simpson ISBN: 9780340991213
- OCR Design and Technology for GCSE: Food Technology Student Book  
by Barbara DiNicoli, Meryl Simpson ISBN: 9780340981979
- OCR GCSE Design and Technology: Food Technology My Revision Notes –Text Book  
by Val Fehners, Barbara DiNicoli and Meryl Simpson ISBN: 9781444167221

### 5.2.2 Endorsed publications

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.

### 5.3 Training

OCR will offer a range of support activities for all practitioners throughout the lifetime of the qualification to ensure they have the relevant knowledge and skills to deliver the qualification.

Please see [CPD Hub](#) for further information.

### 5.4 OCR support services

#### 5.4.1 Active Results

Active Results is available to all centres offering OCR's GCSE Design and Technology: Electronics and Control Systems specification.

The logo for Active Results, with 'active' in blue and 'results' in orange.

Active Results is a free results analysis service to help teachers review the performance of individual candidates or whole schools.

Data can be analysed using filters on several categories such as gender and other demographic information, as well as providing breakdowns of results by question and topic.

Active Results allows you to look in greater detail at your results:

- richer and more granular data will be made available to centres including question level data available from e-marking
- you can identify the strengths and weaknesses of individual candidates and your centre's cohort as a whole
- our systems have been developed in close consultation with teachers so that the technology delivers what you need.

Further information on Active Results can be found on the [OCR website](#).

#### 5.4.2 OCR 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 on the [OCR website](#).



## 6.1 Equality Act information relating to GCSE Design and Technology: Food Technology

GCSEs often require assessment of a broad range of competences. This is because they are general qualifications and, as such, prepare candidates for a wide range of occupations and higher level courses.

The revised GCSE qualification and subject criteria were reviewed by the regulators in order to identify whether any of the competences required by the subject presented a potential barrier to any disabled candidates. If this was the case, the situation was reviewed again to ensure that such competences were included only where essential to the subject. The findings of this process were discussed with disability groups and with disabled people.

Reasonable adjustments are made for disabled candidates in order to enable them to access the assessments and to demonstrate what they know and can do. For this reason, very few candidates will have a complete barrier to the assessment. Information on reasonable adjustments is found in *Access Arrangements, Reasonable Adjustments and Special Consideration* by the Joint Council [www.jcq.org.uk](http://www.jcq.org.uk).

Candidates who are unable to access part of the assessment, even after exploring all possibilities through reasonable adjustments, may still be able to receive an award based on the parts of the assessment they have taken.

The access arrangements permissible for use in this specification are in line with Ofqual's GCSE subject criteria equalities review and are as follows:

	Yes/No	Type of Assessment
Readers	Y	All written examinations
Scribes	Y	All written examinations
Practical assistants	Y	Practical assessments
Word processors	Y	All written examinations
Transcripts	Y	All written examinations
Oral language modifiers	Y	All written examinations
BSL signers	Y	All written examinations
Modified question papers	Y	All written examinations
Extra time	Y	All written examinations

We do not foresee any part of the assessment forming a barrier to any student. There are Design and Technology endorsements which will pose barriers for some disabled candidates.

Candidates with a physical disability may be limited in the range of designing and making contexts they can use, but this should not pose a barrier to assessment. For example, candidates may use CAD/CAM for the making process and practical assistants may be used to support students with physical disabilities in this process.

Candidates with a visual impairment may find elements of the assessment difficult, such as Graphics; however, there should be no barriers to assessment.

It is important to note that where access arrangements are permitted, they must not be used in a way that undermines the integrity of the assessment. For example, practical assistants can be used to help candidates set up but cannot help perform skills which are assessed, such as the ability to physically manipulate equipment.

## **6.2 Arrangements for candidates with particular requirements (including Special Consideration)**

All candidates with a demonstrable need may be eligible for access arrangements to enable them to show what they know and can do. The criteria for eligibility for access arrangements can be found in the JCQ document *Access Arrangements, Reasonable Adjustments and Special Consideration*.

Candidates who have been fully prepared for the assessment but who have been affected by adverse circumstances beyond their control at the time of the examination may be eligible for special consideration. As above, centres should consult the JCQ document *Access Arrangements, Reasonable Adjustments and Special Consideration*.

## 7. Administration of GCSE Design and Technology

In December 2011 the GCSE qualification criteria were changed by Ofqual. As a result, all GCSE qualifications have been updated to comply with the new regulations.

The most significant change for all GCSE qualifications is that, from 2014, unitised specifications must require that 100% of the assessment is terminal.

Please note that there are no changes to the terminal rule and re-sit rules for the January 2013 and June 2013 examination series:

- at least 40% of the assessment must be taken in the examination series in which the qualification is certificated
- candidates may re-sit each unit once before certification, i.e. each candidate can have two attempts at a unit before certification.

**The sections below explain in more detail the rules that apply from the June 2014 examination series onwards.**

### 7.1 Availability of assessment from 2014

There is one examination series available each year in June (all units are available each year in June).

GCSE Design and Technology: Food Technology certification is available in June 2014 . The last assessment opportunity for this qualification is June 2017.

### 7.2 Certification rules

	Unit A521	Unit A523	Unit A525	Certification availability
June 2016	✓	✓	✓	✓
June 2017	✓	✓	✓	✓

For GCSE Design and Technology: Food Technology from June 2016 onwards, a 100% terminal rule applies. Candidates must enter for all their units in the series in which the qualification is certificated.

### 7.3 Rules for re-taking a qualification

Candidates may enter for the qualification an unlimited number of times. There will be no re-take opportunities after the 2017 examination series.

Where a candidate re-takes a qualification, **all** units must be re-entered and all externally assessed units must be re-taken in the same series as the qualification is re-certificated. The new results for these units will be used to calculate the new qualification grade. Any results previously achieved cannot be re-used.

For each of the controlled assessment units, candidates who are re-taking a qualification can choose either to re-take that controlled assessment unit or to carry forward the result for that unit that was used towards the previous certification of the same qualification.

- Where a candidate decides to re-take the controlled assessment, the new result will be the one used to calculate the new qualification grade. Any results previously achieved cannot be re-used.
- Where a candidate decides to carry forward a result for controlled assessment, they must be entered for the controlled assessment unit in the re-take series using the entry code for the carry forward option (see section 7.4).

## 7.4 Making entries

### 7.4.1 Unit entries

Centres must be approved to offer OCR qualifications before they can make any entries, including estimated entries. It is recommended that centres apply to OCR to become an approved centre well in advance of making their first entries. Centres must have made an entry for a unit in order for OCR to supply the appropriate forms and administrative materials. Final entries for this qualification must be received by end of February 2017.

**It is essential** that correct unit entry codes are used when making unit entries.

For the controlled assessment units, centres can decide whether they want to submit candidates' work for moderation through the OCR Repository or by post. Candidates submitting controlled assessment must be entered for the appropriate unit entry code from the table overleaf. Candidates who are re-taking the qualification and who want to carry forward the controlled assessment should be entered using the unit entry code for the carry forward option.

Centres should note that controlled assessment tasks can still be completed at a time which is appropriate to the centre/candidate. However, where tasks change from year to year, centres would have to ensure that candidates had completed the correct task(s) for the year of entry. The final year of entry for this qualification is June 2017.

Unit entry code	Component code	Assessment method	Unit titles
A521A	01	Moderated via OCR Repository	<i>Introduction to designing and making - Food</i>
A521B	02	Moderated via postal moderation	<i>Introduction to designing and making - Food</i>
A521C	80	Carried forward	<i>Introduction to designing and making - Food</i>
A523A	01	Moderated via OCR Repository	<i>Making quality products - Food</i>
A523B	02	Moderated via postal moderation	<i>Making quality products - Food</i>
A523C	80	Carried forward	<i>Making quality products - Food</i>
A525	01	Written paper	<i>Sustainability and technical aspects of designing and making - Food</i>

### 7.4.2 Certification entries

Candidates must be entered for qualification certification separately from unit assessment(s). If a certification entry is **not** made, no overall grade can be awarded.

Centres must enter candidates for:

- GCSE Design and Technology: Food Technology certification code J302

### 7.5 Enquiries about results

Under certain circumstances, a centre may wish to query the result issued to one or more candidates. Enquiries about results for GCSE units must be made immediately following the series in which the relevant unit was taken and by the relevant enquiries about results deadline for that series.

Please refer to the JCQ Post-Results Services booklet and the OCR *Admin Guide: 14–19 Qualifications* for further guidance on enquiries about results and deadlines. Copies of the latest versions of these documents can be obtained from the OCR website at [www.ocr.org.uk](http://www.ocr.org.uk).

### 7.6 Prohibited qualifications and classification code

Every specification is assigned a national classification code indicating the subject area to which it belongs. The classification code for this specification is 9020.

Centres should be aware that candidates who enter for more than one GCSE qualification with the same classification code will have only one grade (the highest) counted for the purpose of the School and College Performance Tables.

Centres may wish to advise candidates that, if they take two specifications with the same classification code, colleges are very likely to take the view that they have achieved only one of the two GCSEs. The same view may be taken if candidates take two GCSE specifications that have different classification codes but have significant overlap of content. Candidates who have any doubts about their subject combinations should seek advice, either from their centre or from the institution to which they wish to progress.

### 8.1 Overlap with other qualifications

There is no significant overlap between the content of these specifications and that for other GCSE qualifications.

The new GCSE (9-1) in Food Preparation and Nutrition (J309) is available for first teaching from September 2016 and for first assessment in 2018. Centres wishing to embark on a Food Technology programme of study must enter for the new GCSE (9-1) in Food Preparation and Nutrition (J309) from September 2016.

### 8.2 Progression from this qualification

GCSE qualifications are general qualifications which enable candidates to progress either directly to employment, or to proceed to further qualifications.

Progression to further study from GCSE will depend upon the number and nature of the grades achieved. Broadly, candidates who are awarded mainly Grades D to G at GCSE could either strengthen their base through further study of qualifications at Level 1 within the National Qualifications Framework or could proceed to Level 2. Candidates who are awarded mainly Grades A\* to C at GCSE would be well prepared for study at Level 3 within the National Qualifications Framework.

This specification provides progression from the Entry Level Certificate in Food Technology.

### 8.3 Avoidance of bias

OCR has taken great care in preparation of this specification and assessment materials to avoid bias of any kind. Special focus is given to the 9 strands of the Equality Act with the aim of ensuring both direct and indirect discrimination is avoided.

### 8.4 Regulatory requirements

This specification complies in all respects with the current: *General Conditions of Recognition; GCSE, GCE, Principal Learning and Project Code of Practice; GCSE Controlled Assessment regulations* and the *GCSE subject criteria for GCSE Design and Technology*. All documents are available on the Ofqual website.

### 8.5 Language

This specification and associated assessment materials are in English only. Only answers written in English will be assessed.

### **8.6 Spiritual, moral, ethical, social, legislative, economic and cultural issues**

These specifications offer opportunities which can contribute to an understanding of these issues in the following topics:

- engage in imaginative and creative activity in their own practical controlled assessment and develop an appreciation of the imagination and creativity of others in Design and Technology
- recognise there are moral, cultural, economic, environmental and sustainability issues inherent in Design and Technology
- the moral implications of some applications of technological activities
- the relationship between cultures and societies and the influence they have on designing and making and that products have an impact on lifestyle
- develop an understanding of the role of the Technology in the context of national and European citizenship.

There are no direct references to spiritual issues within these specifications. However, opportunities may exist to explore this area through the designing and making of products that relate to a religious or spiritual context.

### **8.7 Sustainable development, health and safety considerations and European developments, consistent with international agreements**

This specification supports these issues, consistent with current EU agreements, as outlined below:

- design and technology activities are global and not solely restricted to Europe. Design and making responses are multicultural and arise from identifiable needs and opportunities. These specifications do not make specific reference to European Developments; however, it may be drawn into the course of study in many ways, e.g. European Safety Standards
- encourage candidates to look at emerging and existing technologies in other European countries and the world
- ways in which economic, environmental, ethical and social dimensions interact to influence designing and making
- encourage candidates to consider health and safety when working with tools, equipment, components and materials

- encourage candidates to consider sustainability in making decisions and combining skills with knowledge and understanding in order to design and make quality products.

### 8.8 Key Skills

This specification provides opportunities for the development of the Key Skills of *Communication, Application of Number, Information and Communication Technology, Working with Others, Improving Own Learning and Performance* and *Problem Solving* at Levels 1 and/or 2. However, the extent to which this evidence fulfils the Key Skills criteria at these levels will be totally dependent on the style of teaching and learning adopted for each unit.

Unit	C		AoN		ICT		WwO		IoLP		PS	
	1	2	1	2	1	2	1	2	1	2	1	2
A521	✓	✓			✓	✓	✓		✓	✓	✓	✓
A523	✓	✓			✓	✓			✓	✓	✓	✓
A525	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓

The following table indicates where opportunities may exist for at least some coverage of the various Key Skills criteria at Levels 1 and/or 2 for each unit.

### 8.9 ICT

In order to play a full part in modern society, candidates need to be confident and effective users of ICT. This specification provides candidates with a wide range of appropriate opportunities to use ICT in order to further their study of Design and Technology: Electronics and Control Systems.

Opportunities for ICT include:

- gathering information from the World Wide Web and CD-ROMs
- gathering data using sensors linked to data-loggers or directly to computers
- using spreadsheets and other software to process data
- using animations and simulations to visualise scientific ideas
- using software to present ideas and information on paper and on screen.

### 8.10 Citizenship

From September 2002, the National Curriculum for England at Key Stage 4 includes a mandatory programme of study for Citizenship.

There are opportunities for developing knowledge, skills and understanding of citizenship issues particularly in Units A521 and A523.



## Unit A521

The task for this unit is for the candidate to produce a prototype product, capable of being evaluated and a concise portfolio of work to support the designing and trialling process.

Candidates **must** select one of the following themes as a starting point for the task.

Centres are permitted to contextualise the theme and starting point appropriately to reflect centre or community resource and access to local business and industry that may add realism to the candidates' work.

Teachers are required to ensure that candidates do not pursue the same 'theme' for their work as submitted or intended for submission for Unit A523.

Teachers must mark the task using the marking criteria provided in section 4.3.4 (Unit A521) of this specification.

In order to skilfully design and make their prototype product, candidates should refer to the content of Unit A525 and use designing, planning, making, ingredients, equipment and process as appropriate.

Theme	Starting point
Celebrations	A product suitable for a special occasion and an identified target group.
Special diets	A product for a chosen special diet.
Luxury products	A luxury product that will appeal to an identified target group.
Ready meals	A ready meal for an identified target group.
Food products from around the world	A product from a chosen country that will appeal to an identified target group.
Staple foods	A product based on a chosen staple food and an identified target group
Protein foods	A product based on a protein food/foods that will appeal to an identified target group.
'Eating on the go'	A product that can be 'eaten on the go' for an identified target group.
'Filling the energy gap'	A product that will fill the 'energy gap', which will appeal to an identified target group.
'Eating outside the home'	A product that can be 'eaten outside the home', which will appeal to an identified target group.

## Unit A523

The task for this unit is for the candidate to design and manufacture a product. The starting point for this task **must** be selected from a theme set by OCR and listed below.

Centres are permitted to contextualise the theme and starting point appropriately to reflect centre or community resource and access to local business and industry that may add realism to the candidates' work.

The task can be linked to a candidate's interest or such other influences such as competitions, commerce or the community.

Selection of an appropriate theme for the task will be made by the candidate and centre, taking account of constraints relating to resources and time available for completion of the task.

Teachers are required to ensure that candidates do not pursue the same 'theme' for their work as submitted or intended for submission for Unit A521.

Teachers must mark the task using the marking criteria provided in section 4.3.4 (Unit A523) of this specification.

In order to skilfully design and make their product, candidates should refer to the content of Unit A525 and use designing, planning, making, ingredients, equipment and process as appropriate.

Theme	Starting point
Fruit and/or vegetables	Increases the intake of fruit and/or vegetables.
Nutritional needs	Meets the nutritional needs of a specified age group.
Low income	Is suitable for a person on a limited budget.
Special dietary needs	Is suitable for a person with a special dietary requirement.
Food around the world	Reflects an identified country from around the world.
Celebrations	Is suitable for a celebration.
Packed lunch	Is suitable for inclusion in a packed lunch.
Luxury products	Is suitable for the luxury market.
Alternative protein foods	Incorporates an alternative protein food.
Seasonal foods	Increases the use of locally grown/seasonal foods.
Desserts	Increases the range of desserts.
Baked products	Increases the range of baked products.
Snack products	Increases the range of snack products.

## Appendix B: Guidance for the production of electronic controlled assessment

### B

### Structure for evidence

A controlled assessment portfolio is a collection of folders and files containing the candidate's evidence. Folders should be organised in a structured way so that the evidence can be accessed easily by a teacher or moderator. This structure is commonly known as a folder tree. It would be helpful if the location of particular evidence is made clear by naming each file and folder appropriately and by use of an index called 'Home Page'.

There should be a top level folder detailing the candidate's centre number, candidate number, surname and forename, together with the code A521 or A523, so that the portfolio is clearly identified as the work of one candidate.

Each candidate produces an assignment for controlled assessment. The evidence should be contained within a separate folder within the portfolio. This folder may contain separate files.

Each candidate's controlled assessment portfolio should be stored in a secure area on the centre's network. Prior to submitting the controlled assessment portfolio to OCR, the centre should add a folder to the folder tree containing controlled assessment and summary forms.

### Data formats for evidence

In order to minimise software and hardware compatibility issues it will be necessary to save candidates' work using an appropriate file format.

Candidates must use formats appropriate to the evidence that they are providing and appropriate to viewing for assessment and moderation. Open file formats or proprietary formats for which a downloadable reader or player is available are acceptable. Where this is not available, the file format is not acceptable.

Electronic controlled assessment is designed to give candidates an opportunity to demonstrate what they know, understand and can do using current technology. Candidates do not gain marks for using more sophisticated formats or for using a range of formats. A candidate who chooses to use only word documents will not be disadvantaged by that choice.

Evidence submitted is likely to be in the form of word processed documents, PowerPoint presentations, digital photos and digital video.

To ensure compatibility, all files submitted must be in the formats listed below. Where new formats become available that might be acceptable, OCR will provide further guidance. OCR advises against changing the file format that the document was originally created in. It is the centre's responsibility to ensure that the electronic portfolios submitted for moderation are accessible to the moderator and fully represent the evidence available for each candidate.

## Accepted File Formats

### Movie formats for digital video evidence

MPEG (\*.mpg)

QuickTime movie (\*.mov)

Macromedia Shockwave (\*.aam)

Macromedia Shockwave (\*.dcr)

Flash (\*.swf)

Windows Media File (\*.wmf)

MPEG Video Layer 4 (\*.mp4)

### Audio or sound formats

MPEG Audio Layer 3 (\*.mp3)

### Graphics formats including photographic evidence

JPEG (\*.jpg)

Graphics file (\*.pcx)

MS bitmap (\*.bmp)

GIF images (\*.gif)

### Animation formats

Macromedia Flash (\*.fla)

### Structured markup formats

XML (\*.xml)

### Text formats

Comma Separated Values (.csv)

PDF (.pdf)

Rich text format (.rtf)

Text document (.txt)

### Microsoft Office suite

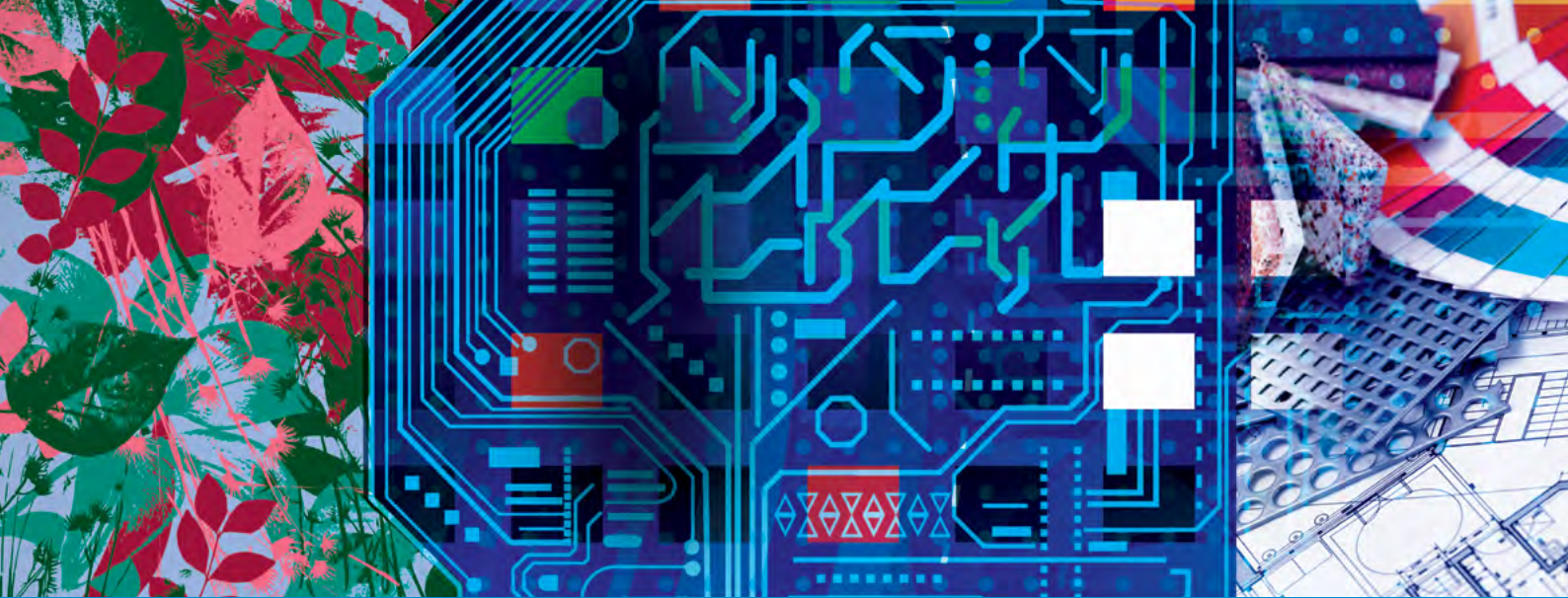
PowerPoint (.ppt)

Word (.doc)

Excel (.xls)

Visio (.vsd)

Project (.mpp)



## YOUR CHECKLIST

Our aim is to provide you with all the information and support you need to deliver our specifications.

- Bookmark [www.ocr.org.uk/gcse2012](http://www.ocr.org.uk/gcse2012)
- Be among the first to hear about support materials and resources as they become available. Register for email updates at [www.ocr.org.uk/updates](http://www.ocr.org.uk/updates).
- Book your inset training place online at [www.ocreventbooker.org.uk](http://www.ocreventbooker.org.uk)
- Learn more about active results at [www.ocr.org.uk/activeresults](http://www.ocr.org.uk/activeresults)
- Join our design and technology social network community for teachers at [www.social.ocr.org.uk](http://www.social.ocr.org.uk)

## NEED MORE HELP?

Here's how to contact us for specialist advice:

Phone: **01223 553998**

Email: [general.qualifications@ocr.org.uk](mailto:general.qualifications@ocr.org.uk)

Online: <http://answers.ocr.org.uk>

Fax: **01223 552627**

Post: **Customer Contact Centre, OCR, Progress House,  
Westwood Business Park, Coventry CV4 8JQ**

## WHAT TO DO NEXT

Become an approved OCR centre – if your centre is completely new to OCR and has not previously used us for any examinations, visit [www.ocr.org.uk/centreapproval](http://www.ocr.org.uk/centreapproval) to become an approved OCR centre.

## Contact us

Keep up to date with the latest news by registering to receive e-alerts at [www.ocr.org.uk/updates](http://www.ocr.org.uk/updates)

Telephone 01223 553998

Facsimile 01223 552627

Email [general.qualifications@ocr.org.uk](mailto:general.qualifications@ocr.org.uk)

