

**Edexcel GCSE**

**Design and Technology:  
Resistant Materials**

**Unit 1: Creative Design and Make Activities**

Controlled Assessment

**Valid for submission in May 2013 and May  
2014 only**

Paper Reference

**5RM01/01**

These controlled assessment tasks are valid for submission in May 2013 and May 2014 only. Centres must submit their moderation sample(s) by 15 May of the assessment year.

Please note that these controlled assessment tasks will be subject to review every two years.

Further guidance can be found on the Edexcel website ([www.edexcel.com](http://www.edexcel.com)).

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## Delivery of the controlled assessment

You will design and make a **resistant materials product**.

In order to complete this task you will undertake the following **design** activity:

Stages	Tasks	Suggested times
1. Investigate	1.1 Analysing the brief	1 hour
	1.2 Research	3 hours
	1.3 Specification	1 hour
2. Design	2.1 Initial ideas	5–6 hours
	2.2 Review	1 hour
	2.3 Communication	Evidenced throughout
3. Develop	3.1 Development	5–6 hours
	3.2 Final design	1–2 hours

In order to complete this task you will undertake the following **make** activity:

Stages	Tasks	Suggested times
4. Plan	4.1 Production plan	1–2 hours
5. Make	5.1 Quality of manufacture	16 hours
	5.2 Quality of outcome	
	5.3 Health and safety	Evidenced throughout
6. Test and evaluate	6.1 Testing and evaluation	1–2 hours

**Controlled conditions**

Development of the students' controlled assessment tasks must take place under controlled conditions. Students will be supervised by a teacher for the majority of the time taken to produce a design folder and manufacture their products.

Students can use ICT to produce their work, some of which may be done outside the classroom, as long as it is drafted under controlled conditions and the final version matches the original draft.

Teachers are allowed to provide regular, formative feedback throughout the Controlled Assessment activity and student progression should be supported by the centre's own Assessment For Learning strategies.

**Collaboration control**

Where group work is carried out, individual contributions must be clearly identified and recorded and students must produce evidence to match the assessment criteria individually. There must be no shared evidence.

**Resources**

Access to resources is determined by those available in the centre.

**Quality of written communication**

Quality of written communication (QWC) will be assessed throughout the students' design folders. This will assess students on their ability to organise information clearly and coherently, using specialist vocabulary where appropriate.

## Tasks

Suggested resistant materials products are:

1. **Storage**, e.g.
  - A small lockable box/container for holding personal objects such as jewellery or other valuable items.
  - A bathroom cabinet with storage space for cosmetics and medicines.
2. **Lighting**, e.g.
  - An adjustable lamp for use when doing homework.
  - A nightlight for young children who are afraid of the dark.
3. **Furniture**, e.g.
  - A novelty seating unit for use in children's nurseries.
  - An occasional table suitable for use in waiting rooms.
4. **Leisure**, e.g.
  - An educational toy to help with counting and shape recognition.
  - A mobile cart/buggy that can carry toys from place to place.
5. **Outdoors**, e.g.
  - A grabbing device for picking up small pieces of outdoor debris.
  - A trolley to transport heavy objects.

Centres can contextualise the task(s) to best suit their specific circumstances, which includes the availability of and access to resources.

## Task taking

The majority of controlled assessment work must be carried out under medium levels of control i.e. informal teacher supervision. The exceptions to this are research and preparation, which can be done without supervision.

### Initial research

Students can undertake research to locate sources of information outside the classroom without supervision, but they must 'write up' their research under informal teacher supervision.

### Design and make tasks

Students must complete the following under informal supervision:

- writing up of their design folder
- making their product.

Students can use the following to help in completing their task:

- initial research undertaken outside the classroom
- sources provided by the centre.

Additional research may be undertaken and added at any time, provided this is done under the same supervised conditions as the initial research.

## Task marking

Marking of the controlled assessment task will be carried out by teachers and moderated by Edexcel.